



Milesight

Network Camera User Manual

Milesight Technology Co.,Ltd.

V6.04

Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact your dealer.

This manual is applicable to the Milesight H.264&H.265 Network Camera, series shown as follows, except where otherwise indicated.

Milesight H.264 Network Camera			
Megapixel Type	1.3MP	2.0MP	3.0MP
Mini Dome Camera	MS-C2181-PA	MS-C3581-PA	MS-C3586-PA
IR Mini Dome Camera	MS-C2182-PA	MS-C3582-PA	MS-C3587-PA
Vandal-proof Mini Dome	MS-C2173-PA	MS-C3373-PA MS-C3573-PA	MS-C3377-PA MS-C3577-PA
Wi-Fi Mini Cube Camera	MS-C2191-PWA	-	MS-C3596-PWA
Mini Bullet Camera	MS-C2163-PNA	MS-C3263-PNA MS-C3363-PNA	MS-C3367-PNA MS-C3567-PNA
Remote Focus&Zoom Mini Bullet Camera	MS-C2163-F(I)PNA	MS-C3263-F(I)PNA MS-C3363-F(I)PNA	MS-C3367-F(I)PNA MS-C3567-F(I)PNA
Remote Focus&Zoom Pro Bullet Camera	MS-C2162-F(I)PNA	MS-C3262-F(I)PNA MS-C3362-F(I)PNA	MS-C3366-F(I)PNA MS-C3566-F(I)PNA
Remote Focus&Zoom Pro Dome Camera	MS-C2172-F(I)PNA	MS-C3272-F(I)PNA MS-C3372-F(I)PNA	MS-C3376-F(I)PNA MS-C3576F(I)PNA
Remote Focus&Zoom Pro Dome(M) Camera	MS-C2172-F(I)PMNA	MS-C3272-F(I)PMNA MS-C3372-F(I)PMNA	MS-C3376-F(I)PMNA MS-C3576-F(I)PMNA
Day&Night Pro Box Camera	MS-C2151-PA	-	MA-C3356-PA MS-C3556-PA

Milesight H.265 Network Camera		
Megapixel Type	2.0MP	4.0MP
Vandal-proof Mini Dome Network Camera	MS-C2973-PB	MS-C4473-PB
Mini Bullet Camera	MS-C2963-PB	MS-C4463-PB
Remote Focus&Zoom Mini Bullet Camera	MS-C2863-F(I)PB MS-C2963-F(I)PB	MS-C4463-F(I)PB
Remote Focus&Zoom Pro Bullet Camera	MS-C2862-F(I)PB MS-C2962-F(I)PB	MS-C4462-F(I)PB
Remote Focus&Zoom Pro Dome Camera	MS-C2872-F(I)PB MS-C2972-F(I)PB	MS-C4472-F(I)PB
Remote Focus&Zoom Pro Dome(M) Camera	MS-C2872-F(I)PMB MS-C2972-F(I)PMB	MS-C4472-F(I)PMB

This Manual explains how to use and manage Milesight network cameras on your network. Previous experience of networking will be of use when using the products. Please read this manual carefully before operation and retain it for future reference.

This manual may contain several technically incorrect places or printing errors, and the content is subject to change without notice. The updates will be added into the new version of this manual. We will readily improve or update the products or procedures described in the manual.

Copyright Statement

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Milesight reserves the right to change this manual and the specifications without prior notice. The latest specifications and user documentation for all Milesight products are available on our official website www.milesight.com



Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. The precaution measures are divided into “Warnings” and “Cautions”

Warnings: Serious injury or death may be caused if any of these warnings is neglected.

Cautions: Injury or equipment damage may be caused if any of these cautions are neglected.

	
Warnings: Please follow these safeguards to prevent injury or death.	Cautions: Please follow these safeguards to prevent potential injury or material damage.



Warnings

- ◆ This installation must be conducted by a qualified service person and should strictly comply with the electrical safety regulations of the local region
- ◆ To avoid risk of fire and electric shock, do keep the product away from rain and moisture
- ◆ Do not touch components such as heat sinks, power regulators, and processors, which may be hot
- ◆ Source with DC 12V or PoE
- ◆ Please make sure the plug is firmly inserted into the power socket
- ◆ When the product is installed on a wall or ceiling, the device should be firmly fixed
- ◆ If the product does not work properly, please contact your dealer. Never attempt to disassemble the camera by yourself



Cautions

- ◆ Make sure that the power supply voltage is correct before using the camera
- ◆ Do not store or install the device in extremely hot or cold temperatures, dusty or damp locations, and do not expose it to high electromagnetic radiation
- ◆ Only use components and parts recommended by manufacturer
- ◆ Do not drop the camera or subject it to physical shock
- ◆ To prevent heat accumulation, do not block air circulation around the camera
- ◆ Laser beams may damage image sensors. The surface of image sensors should not be exposed to where a laser beam equipment is used
- ◆ Use a blower to remove dust from the lens cover
- ◆ Use a soft, dry cloth to clean the surface of the camera. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry
- ◆ Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finishes
- ◆ Save the package to ensure availability of shipping containers for future transportation



Environmental Protection

Please recycle this device in a responsible manner. Refer to local environmental regulations for proper recycling. Do not dispose of devices in unsorted municipal waste.

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Chapter I Product Description

1.1 Product Overview

Milesight provides a consistent range of cost-effective and reliable network cameras to fully meet your requirements. Based on embedded Linux operating system, Milesight network cameras could be easily accessed and managed either locally or remotely with great reliability. Built-in high-performance DSP video processing modules, the cameras pride on low power consumption and high stability. They support state-of-the-art H.265/H.264/MJPEG video compression algorithm and industry-leading HD dual-stream technology to achieve the highest level of video image quality under the limited network resources. It is fully functional, supporting for flexible and comprehensive alarm linkage mechanism, day and night auto switch, smart PTZ control and privacy masking, etc.

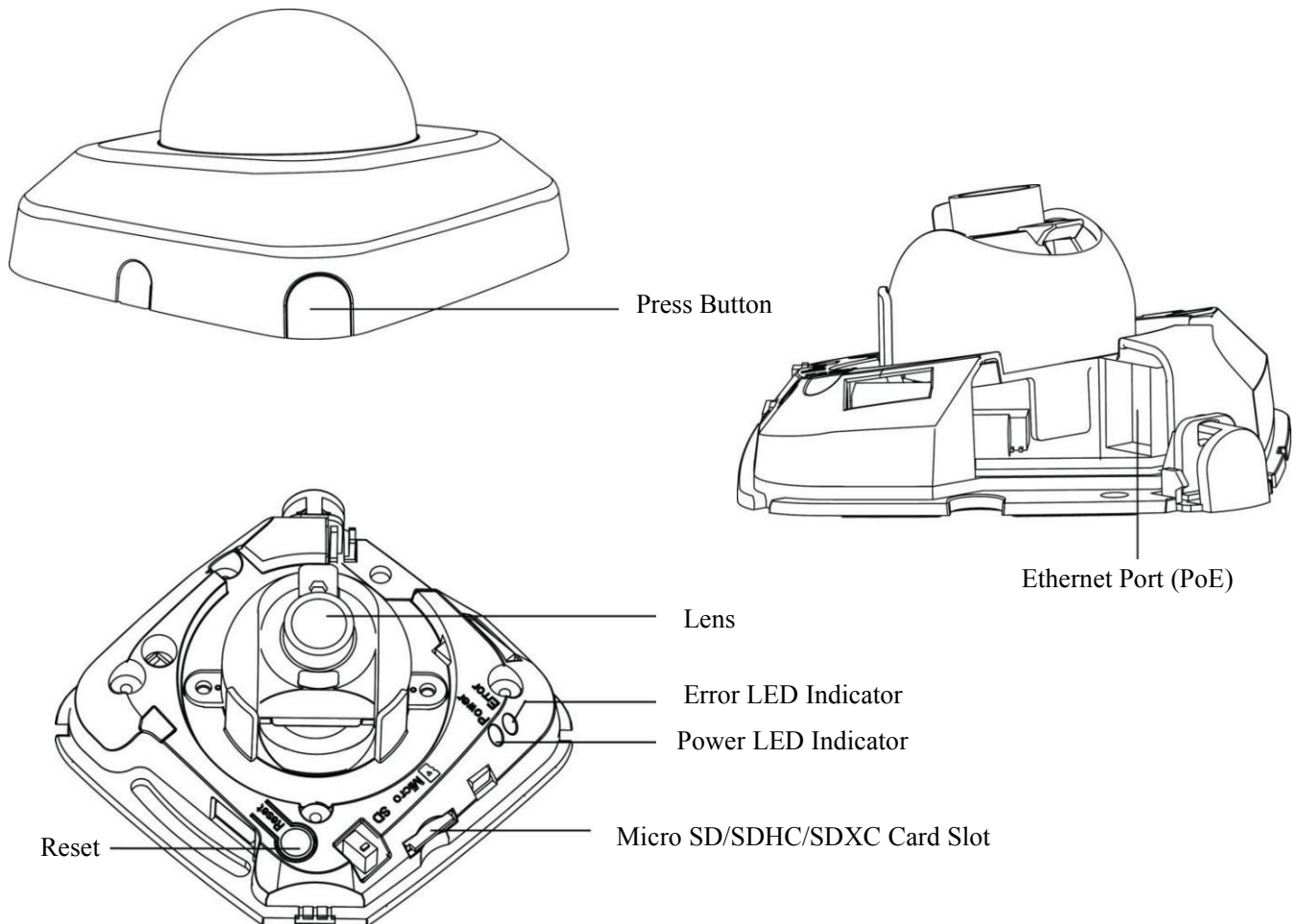
In practical applications, Milesight network cameras could either work independently in the LAN, or be networked to form a powerful safety monitoring system. It is widely used in fields such as finance, education, industrial production, civil defense, health care for security's sake.

1.2 Key Features

- ✧ Based on Linux OS with high reliability
- ✧ H.265/H.264/MJPEG video compression capability
- ✧ Support ONVIF Profile S
- ✧ Support three streams
- ✧ Support PoE
- ✧ ICR filter with auto switch, true day/ night
- ✧ Built-in WEB server, support IE/ Firefox/ Chrome/ Safari browser
- ✧ UPnP protocol for the easy management of IPC
- ✧ Motion Detection, Privacy Masking, Network Fault Detection and ROI
- ✧ FTP upload, SMTP upload, SD card record and SIP phone
- ✧ G.711/AAC audio compression capability
- ✧ Alarm I/O(built-in for bullet and box cameras, optional for dome cameras)
- ✧ Built-in Microphone(built-in for (IR) Mini Dome and Vandal-proof Mini Dome, optional for Pro Dome)
- ✧ Real-time video electronic amplification
- ✧ Three-privilege levels of users for flexible management
- ✧ Micro SD/SDHC/SDXC card local storage support, expand the edge storage
- ✧ Local PAL/NTSC signal output

1.3 Hardware Overview

1. Mini Dome Network Camera



Note:

- 1) Error LED Indicator: Error LED Indicator is on when the device starts up or runs error.
- 2) Reset Button: Press "Reset" button for 5 seconds, the device will be restored to factory default.
- 3) Only PoE is available for power supply.

2. IR Mini Dome Network Camera

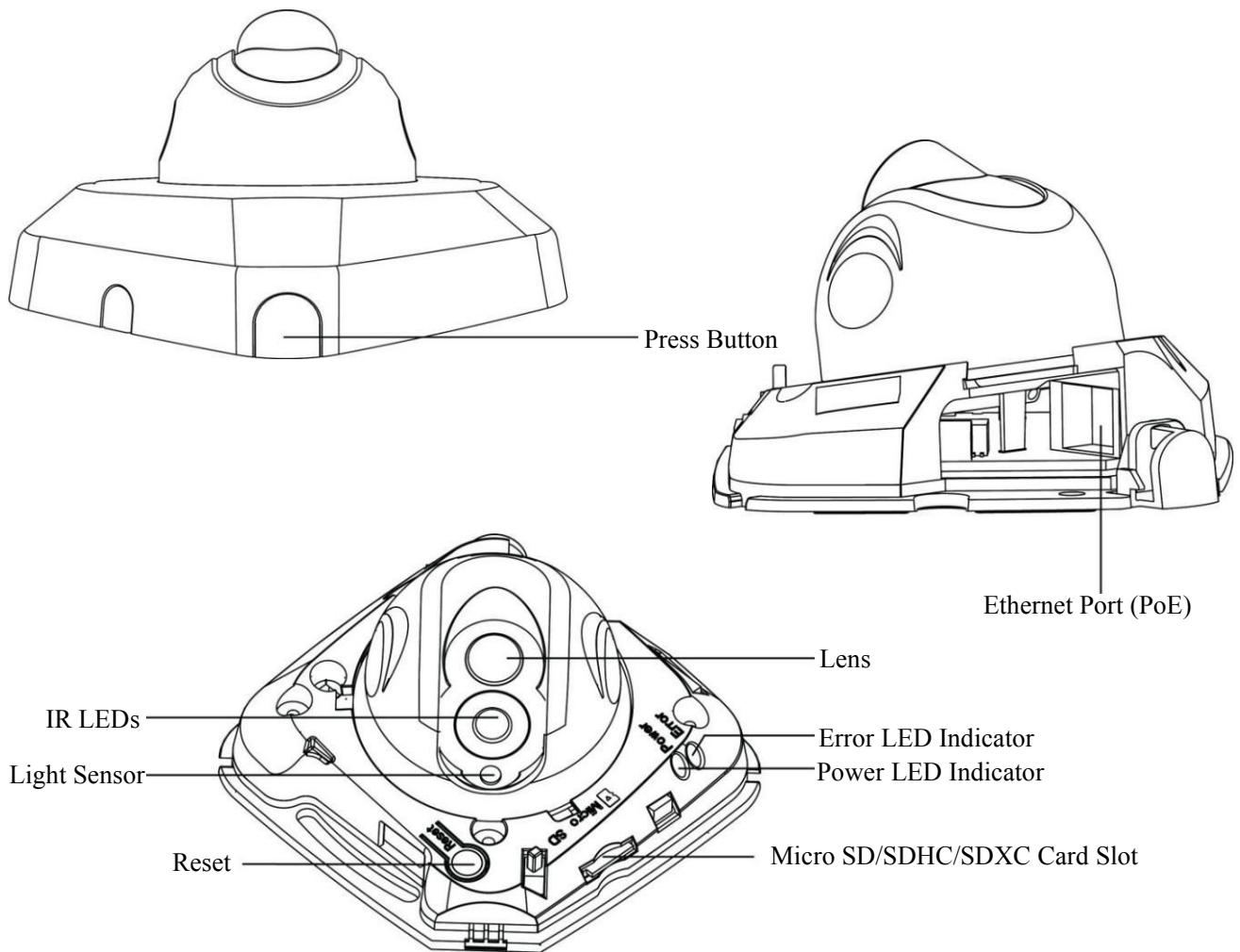


Figure 1-3-2 IR Mini Dome

Note:

- 1) Error LED Indicator: Error LED Indicator is on when the device starts up or runs error.
- 2) Reset Button: Press "Reset" button for 5 seconds, the device will be restored to factory default.
- 3) Only PoE is available for power supply.

3. Vandal-proof Mini Dome

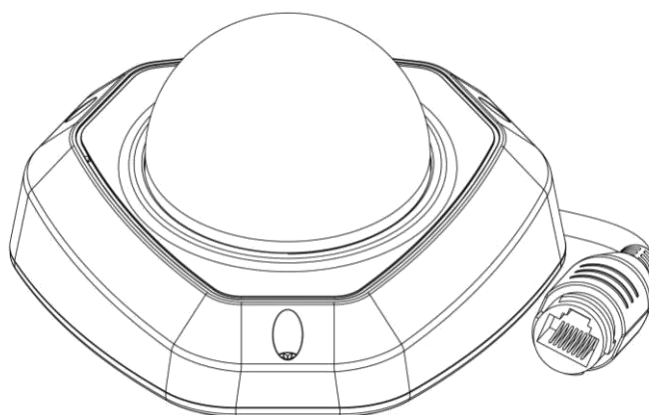


Figure 1-3-3

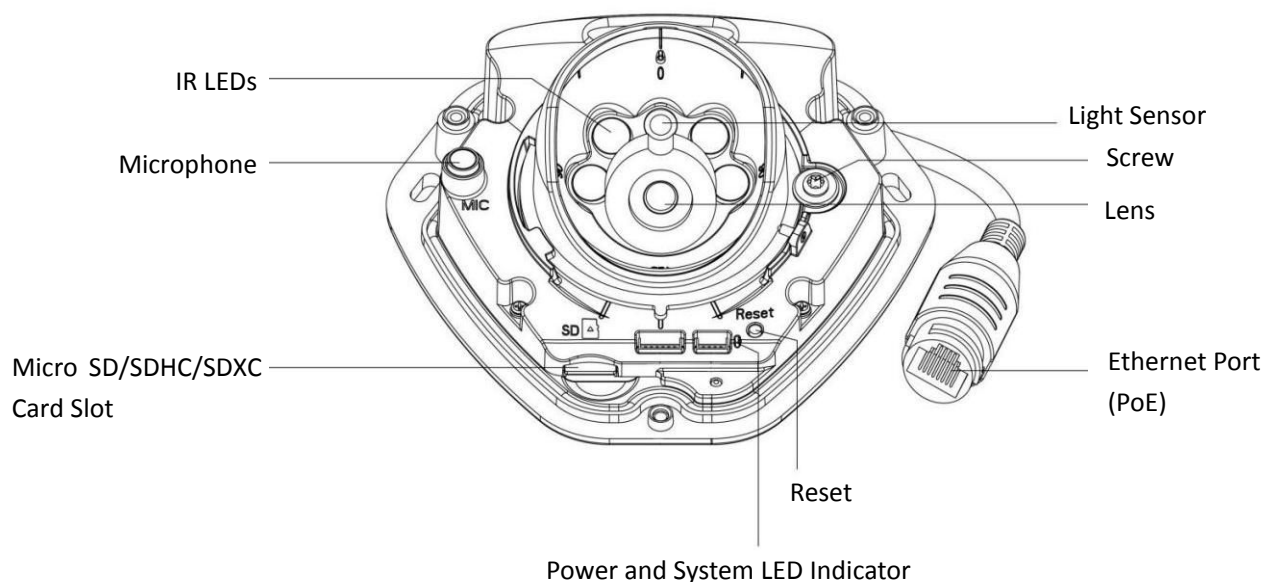


Figure 1-3-4 Vandal-proof Mini Dome

Note:

- 1) Error LED Indicator: Error LED Indicator is on when the device starts up or runs error.
- 2) Reset Button: Press “Reset” button for 5 seconds, the device will be restored to factory default.
- 3) Only PoE is available for power supply.

4. Mini Cube Network Camera

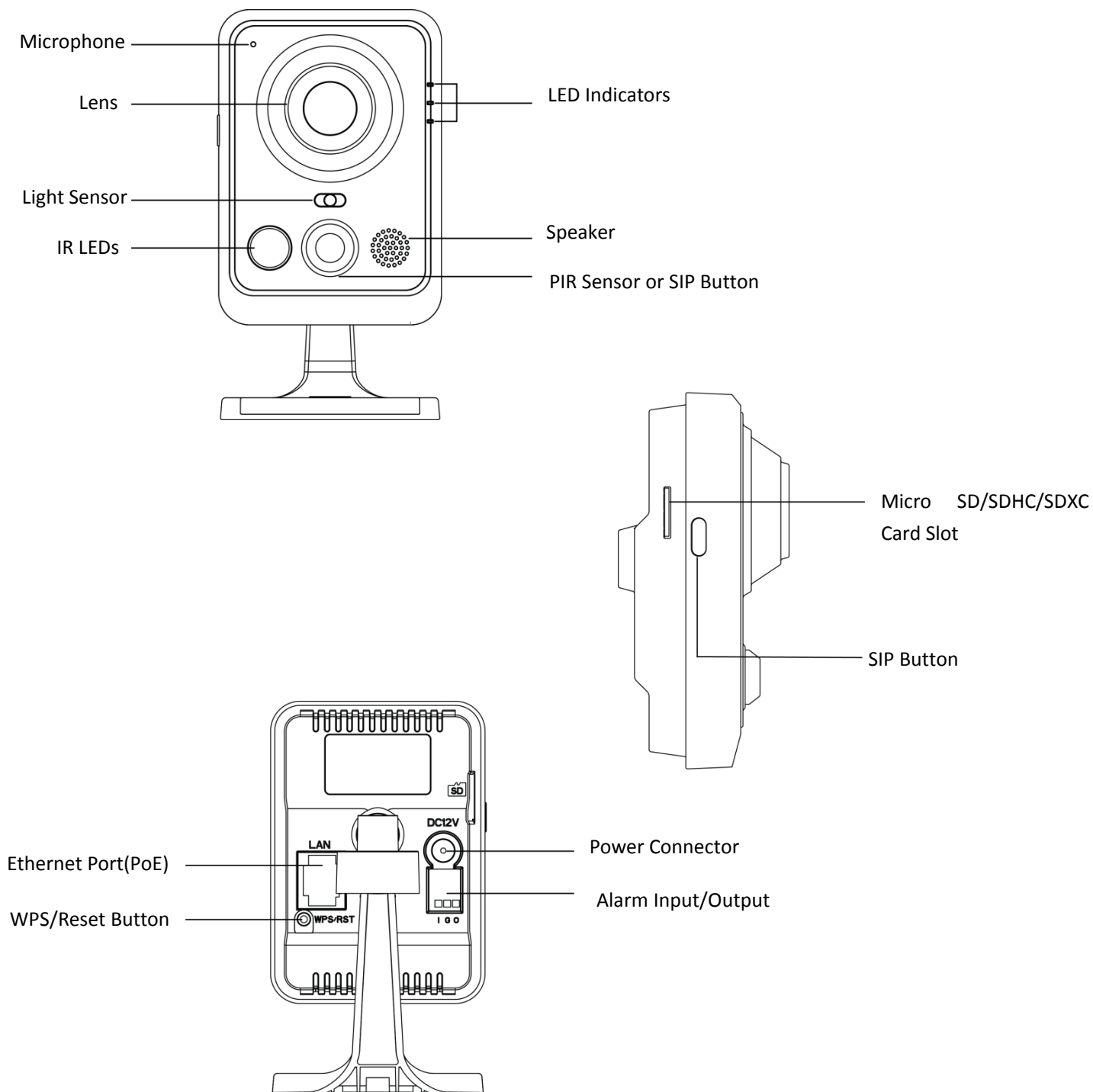


Figure 1-3-5 Wi-Fi Mini Cube Camera

Note:

- 1) SIP Button: Trigger alarm via SIP calling. After this button is pressed, the camera will call the SIP Phone.
- 2) WPS Button: Press this button, and then press the WPS button on your router to set up wireless connection automatically.
- 3) DC 12V and PoE are available for power supply;

5. Mini Bullet Network Camera

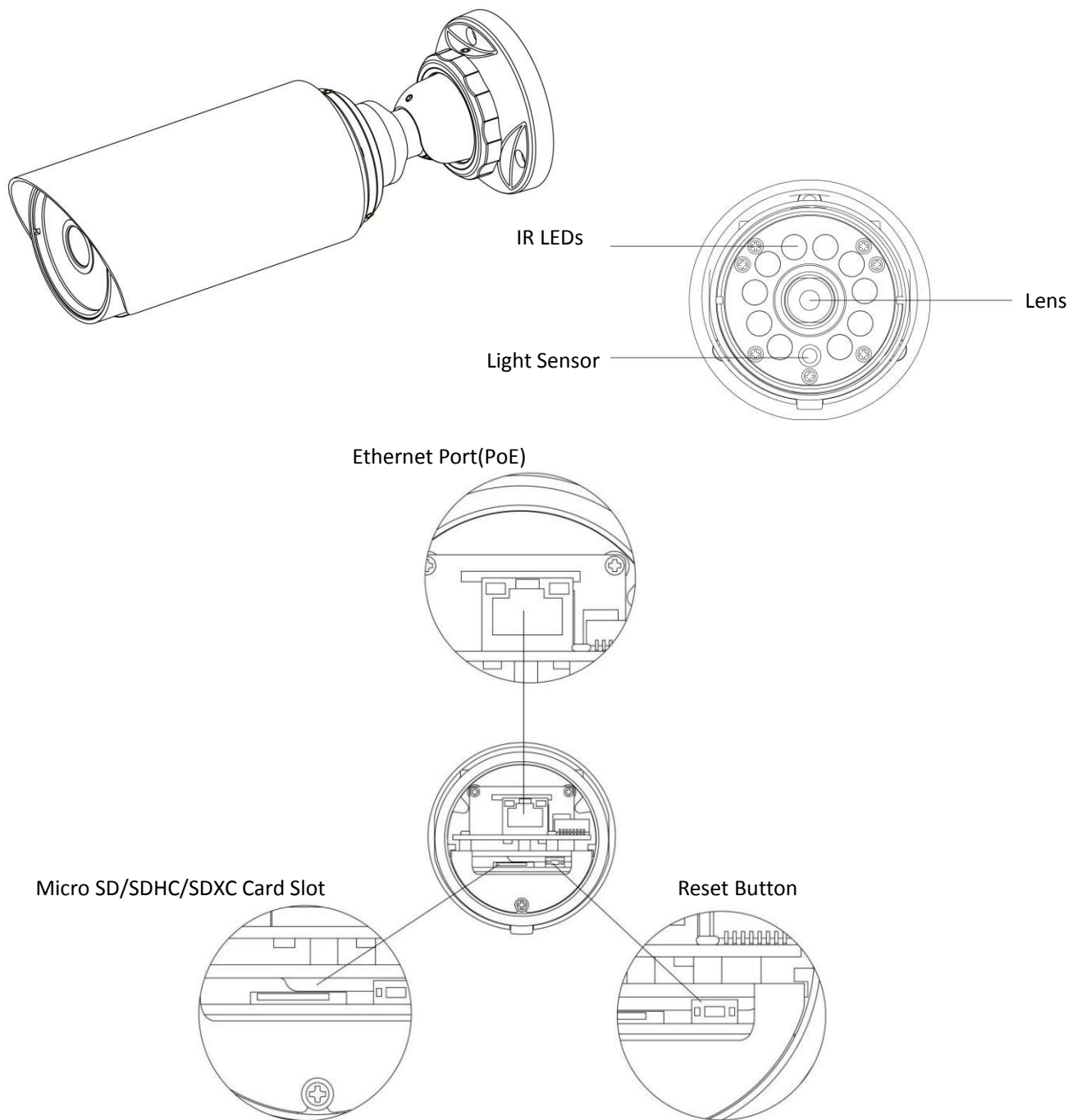


Figure 1-3-6 Mini Bullet Camera

Note:

- 1) Only PoE is available for power supply.

6. Remote Focus&Zoom Mini Bullet Camera

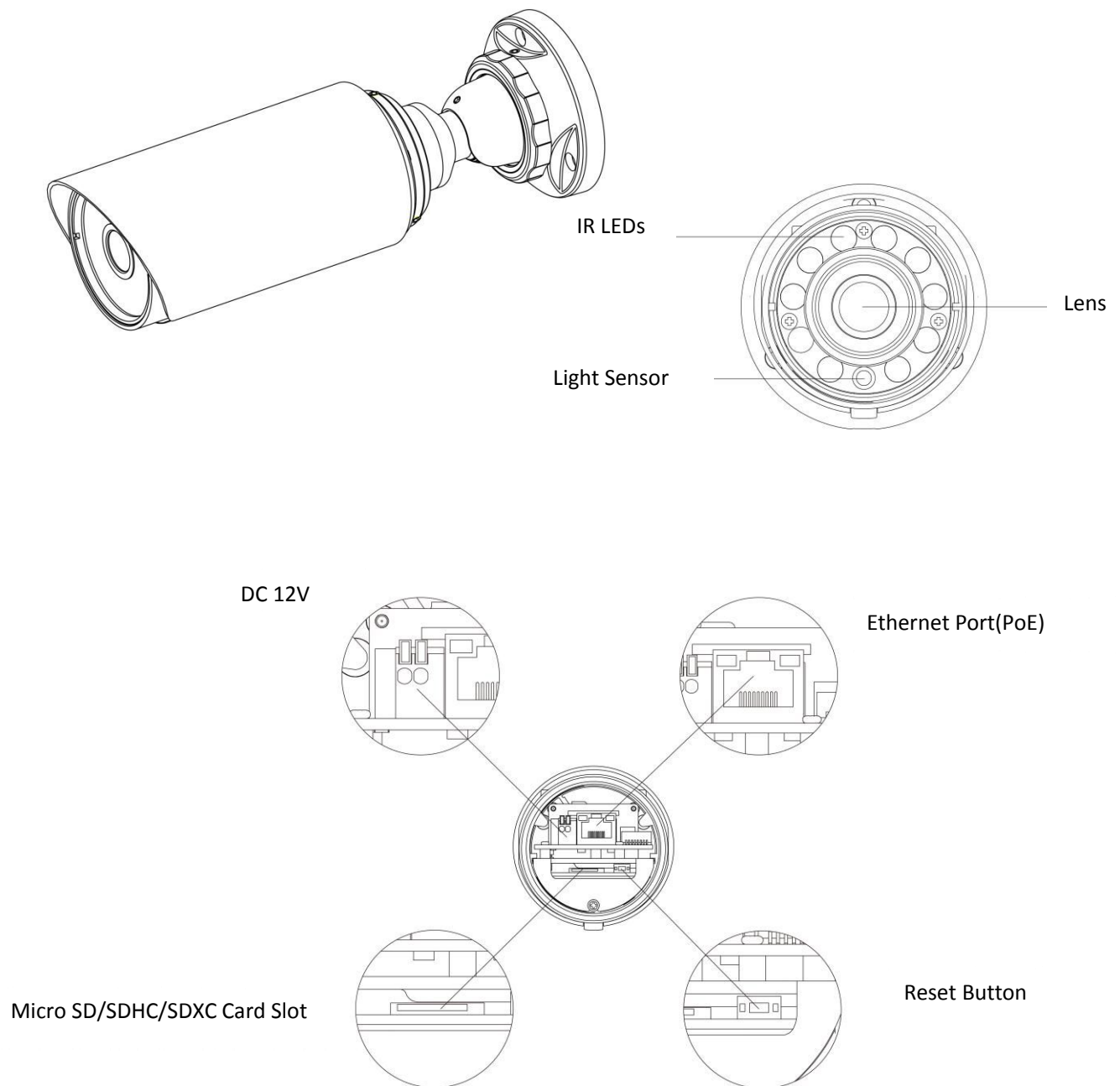


Figure 1-3-7 Remote Focus&Zoom Mini Bullet Camera

Note:

- 1) DC 12V and PoE are available for power supply.

7. Pro Bullet Camera

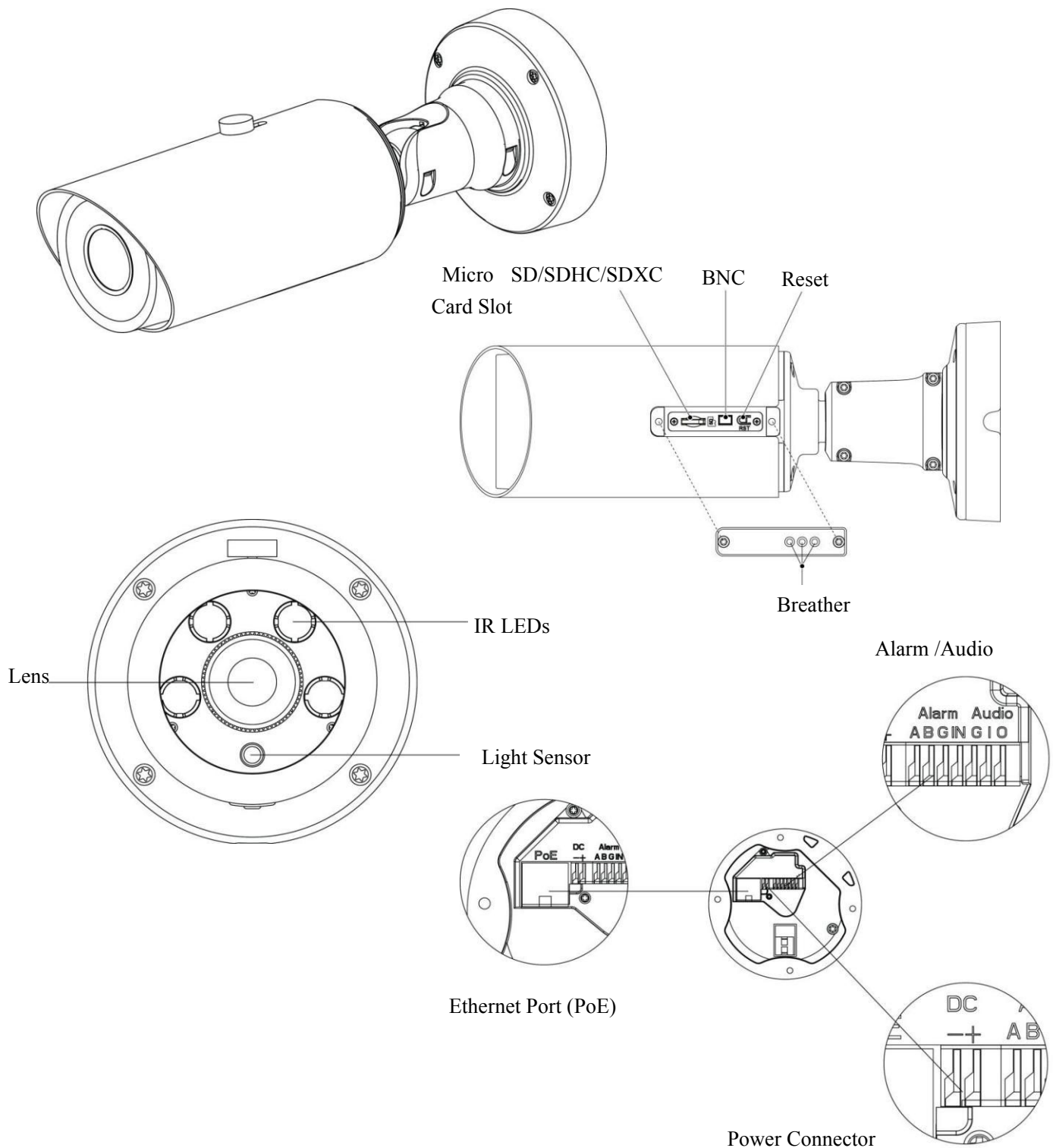
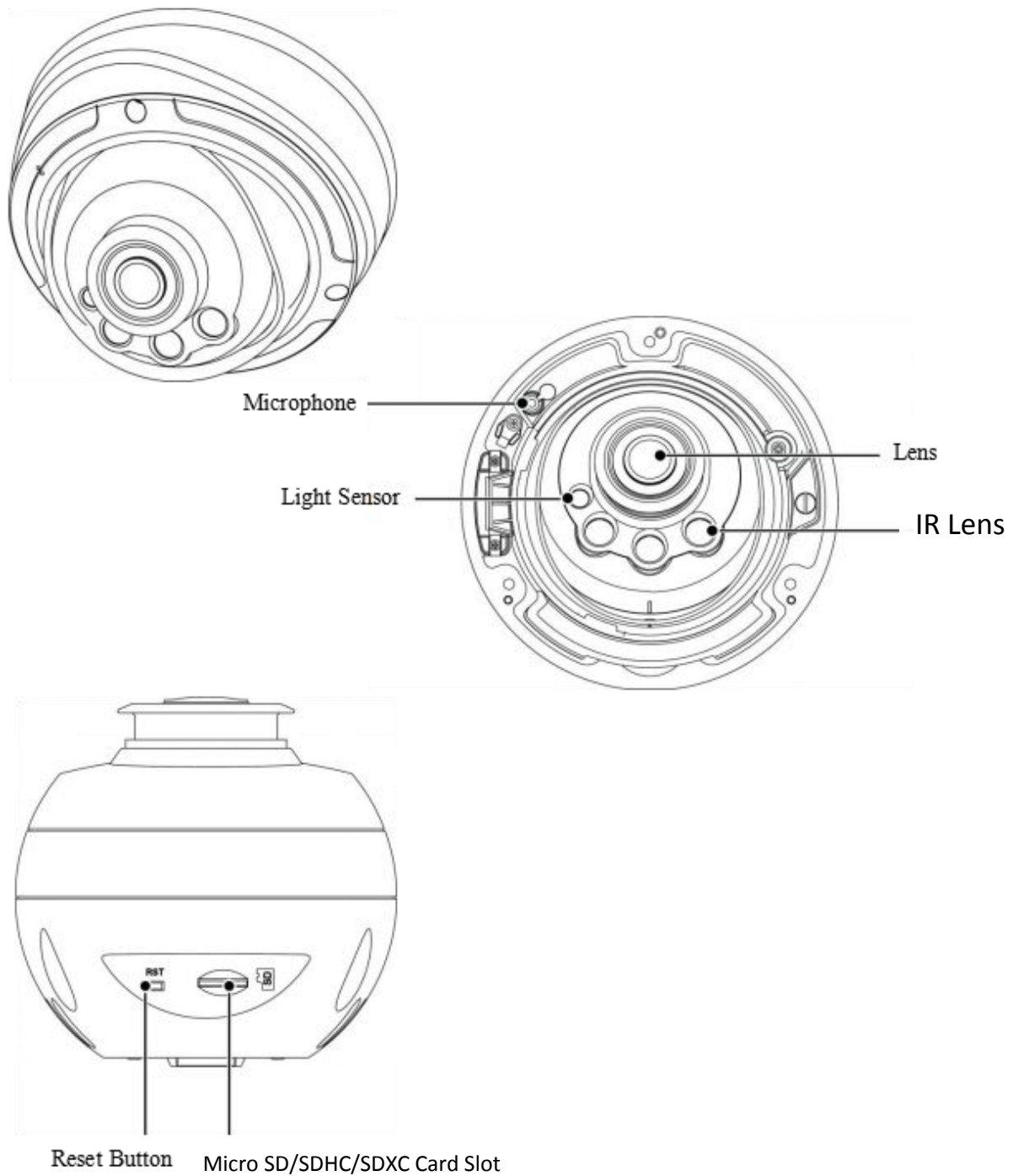


Figure 1-3-8 Pro Bullet Camera

Note:

- 1) DC 12V and PoE are available for power supply.

8. Pro Dome Network Camera



Note:

- 1) There are two versions for Pro Dome: **Standard** and **Multiple Interface**, the interface's pictures are as following;
- 2) Multiple Interface adopts the external interface "Audio In" instead of the Microphone built-in;

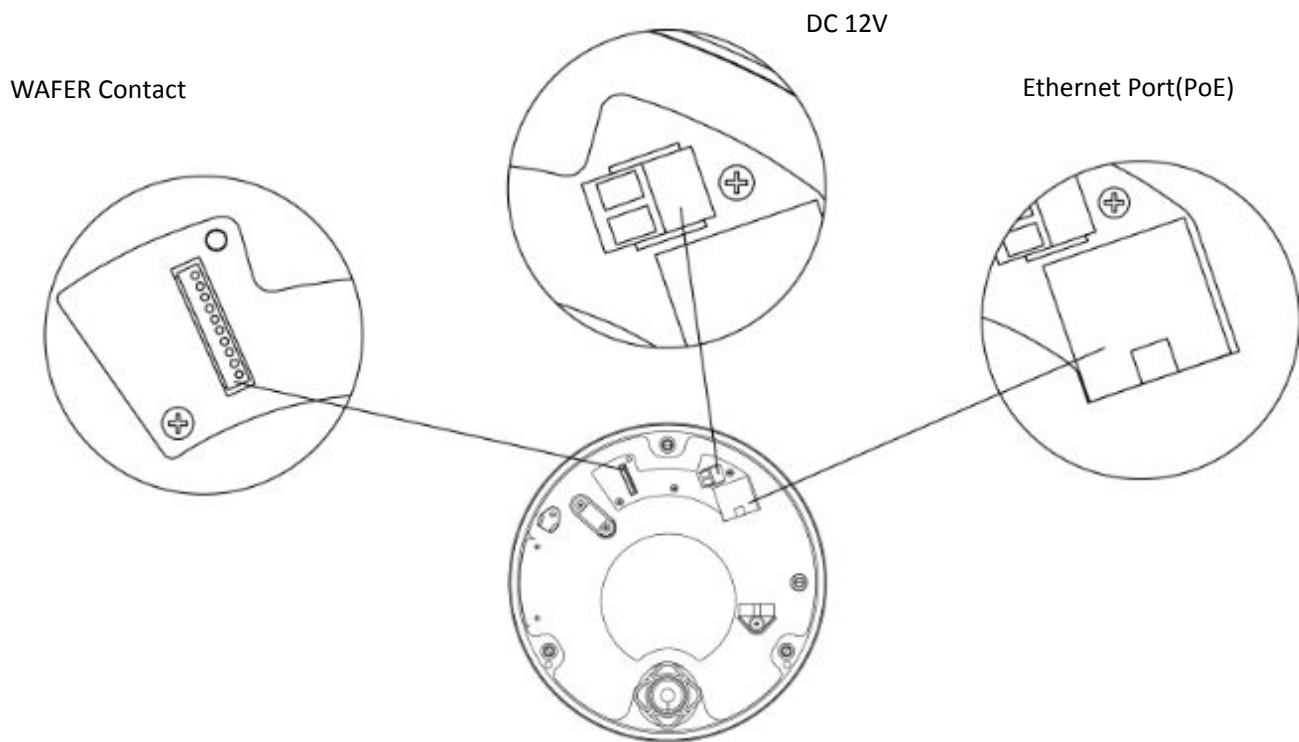


Figure 1-3-9 Pro Dome Camera(Standard Interface)

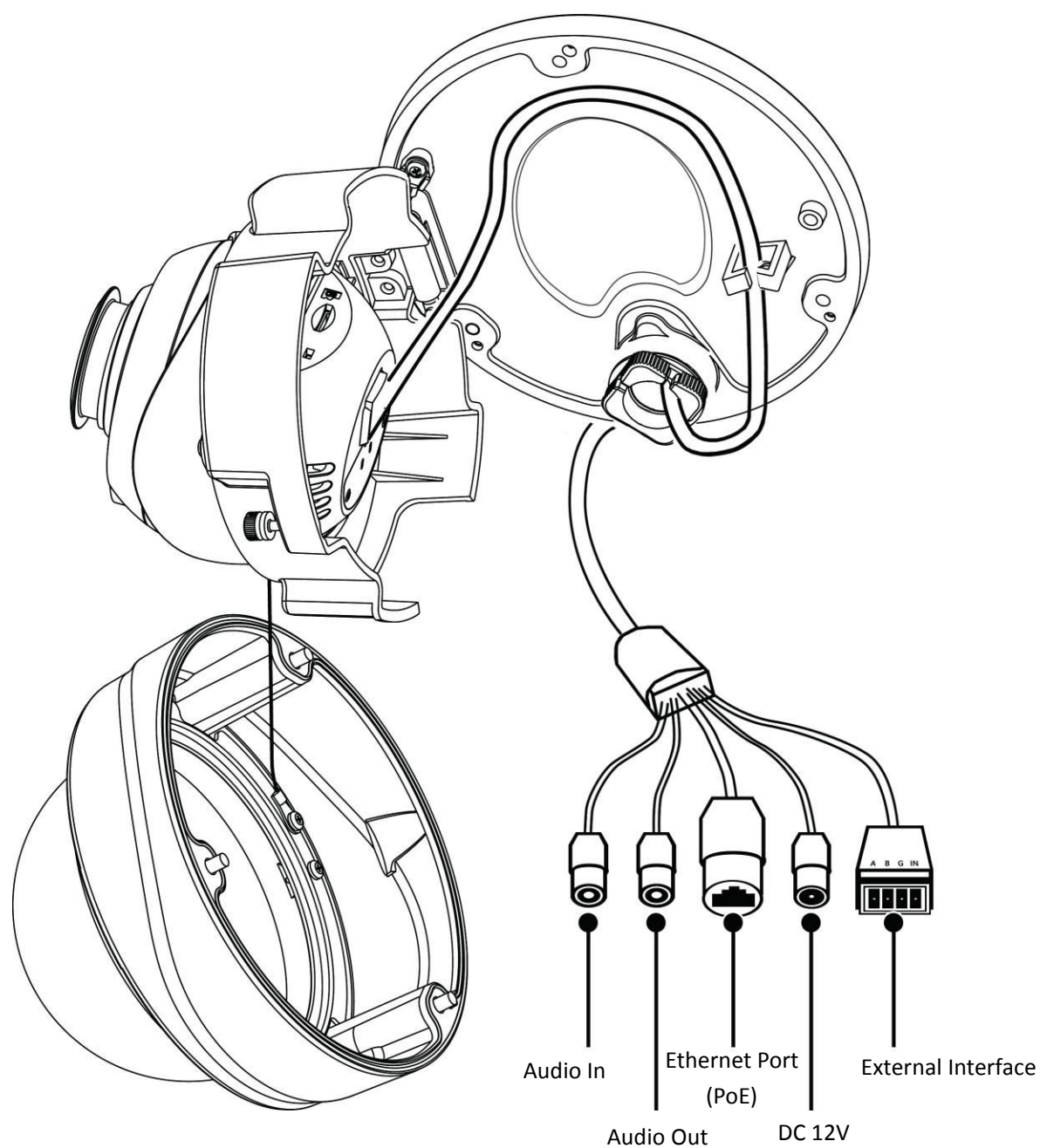
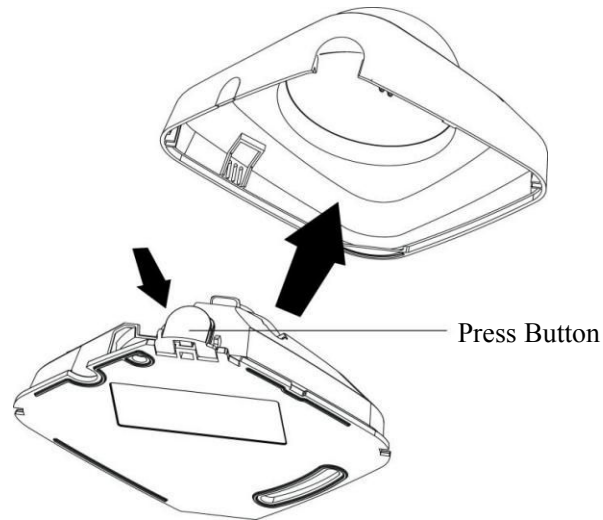


Figure 1-3-10 Pro Dome Camera(Multiple Interface)

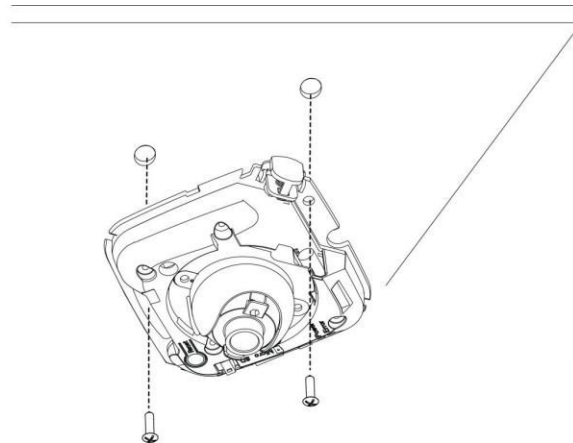
1.4 Hardware Installation

1. Mini Dome Network Camera

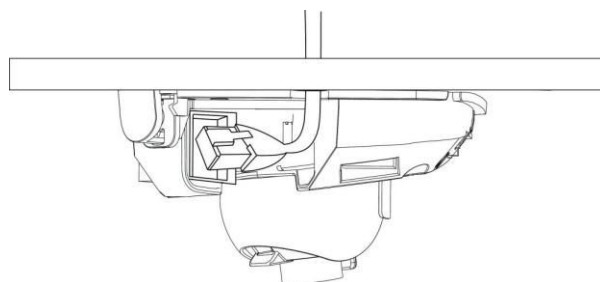
Step1: Remove the dome cover;



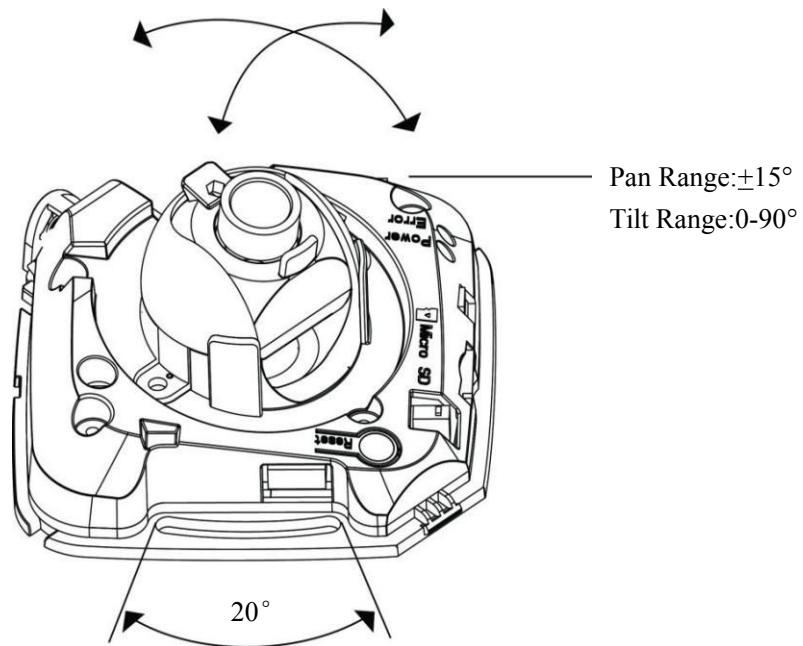
Step2: Secure the screws;



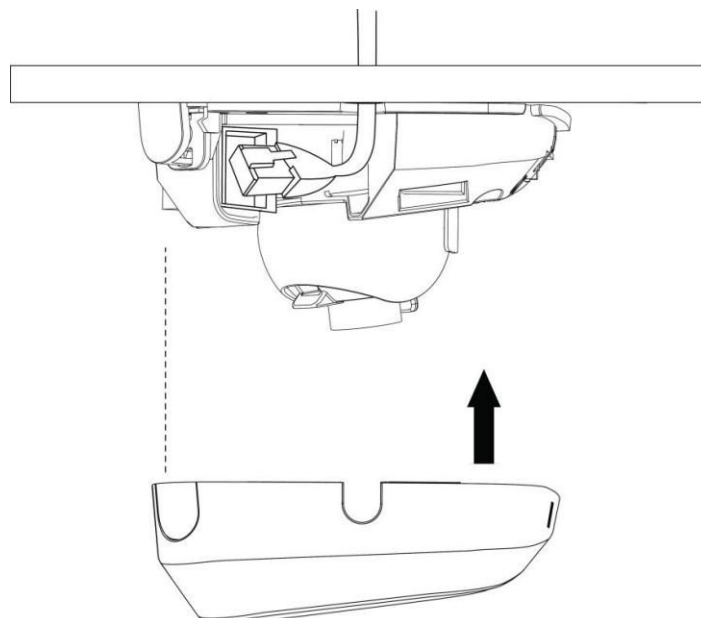
Step3: Connect and route an Ethernet cable through the ceiling or wall;



Step4: Adjust the lens angle and focus;

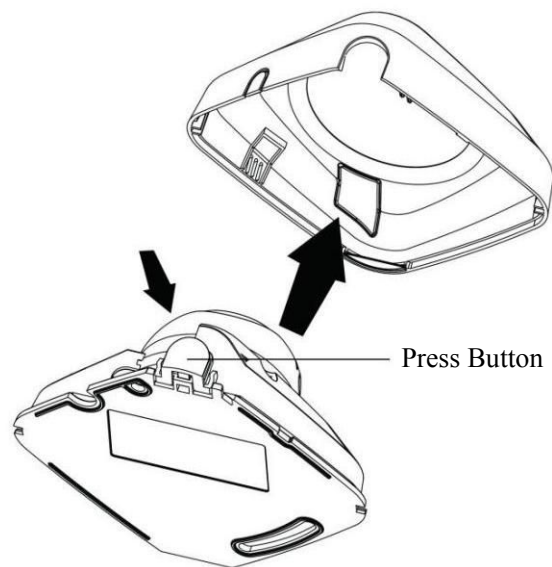


Step5: Attach the dome cover;

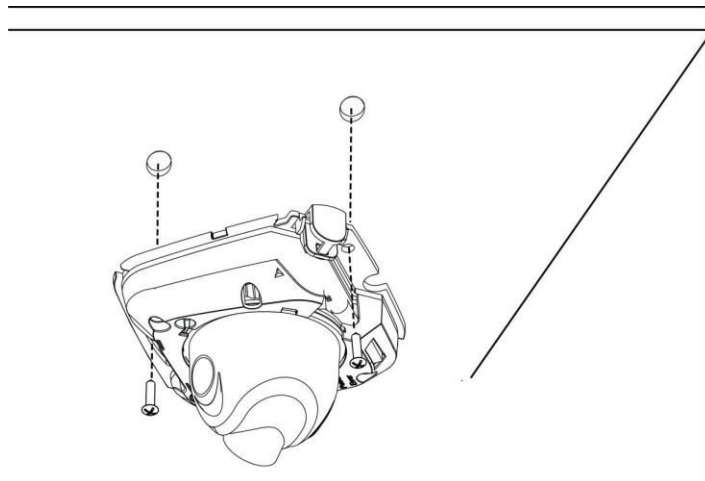


2. IR Mini Dome Network Camera

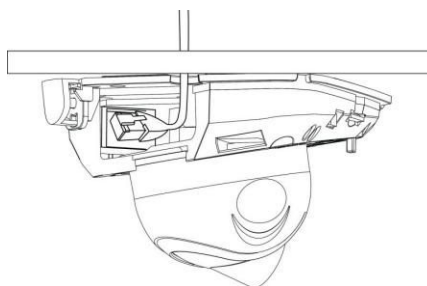
Step1: Remove the dome cover;



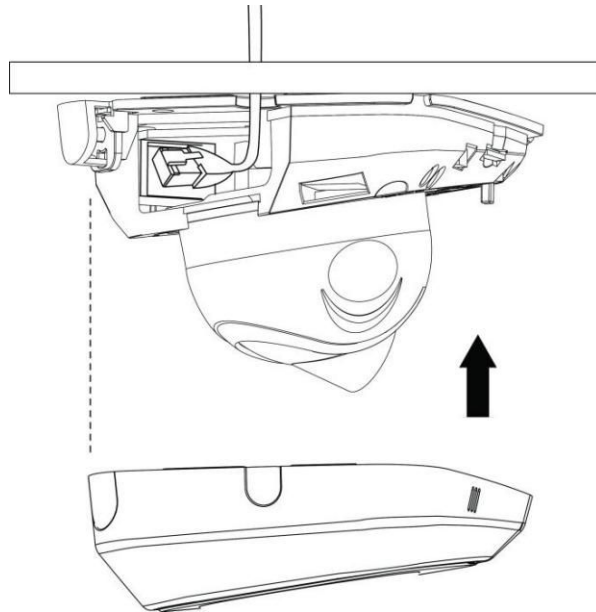
Step2: Secure the screws;



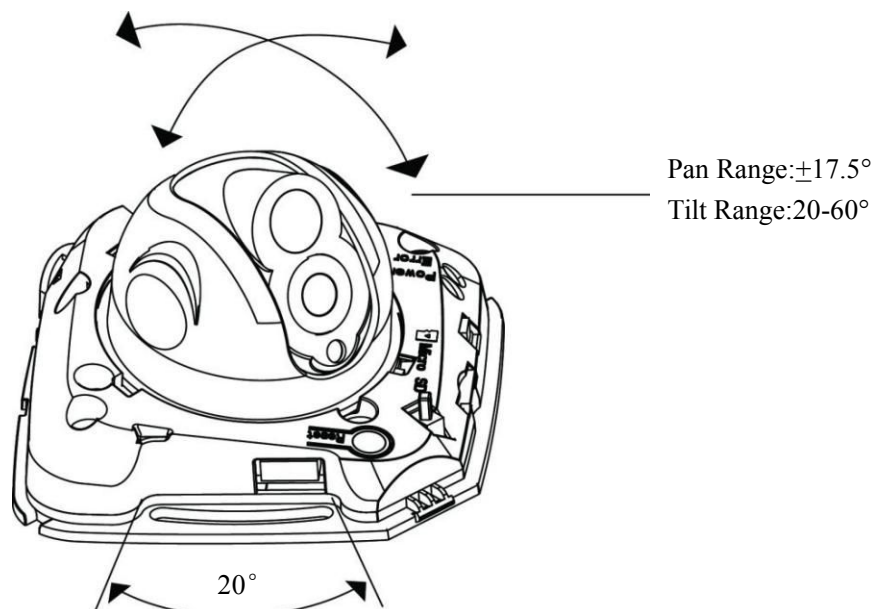
Step3: Connect and route an Ethernet cable through the ceiling or wall;



Step4: Attach the dome cover;

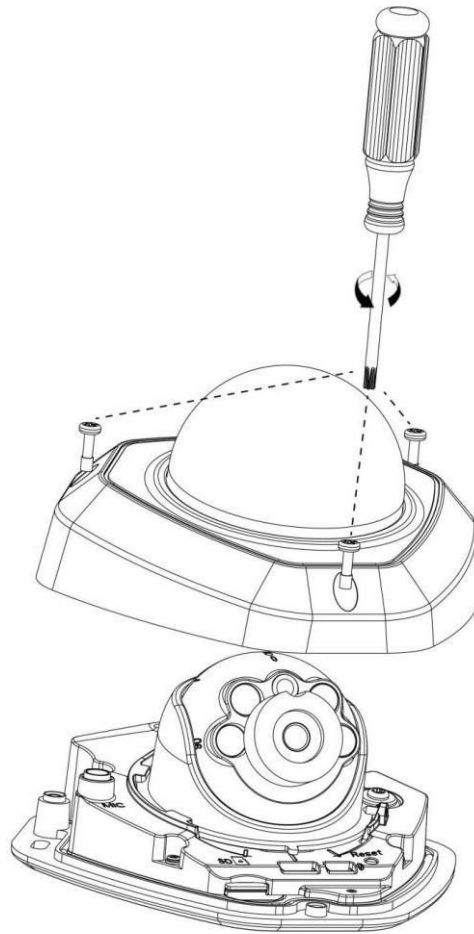


Step5: Adjust the lens angle and focus;

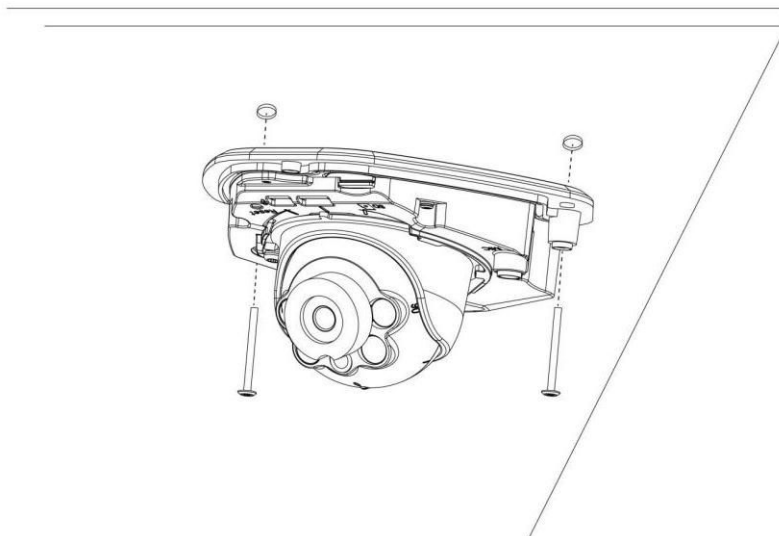


3. Vandal-proof Mini Dome

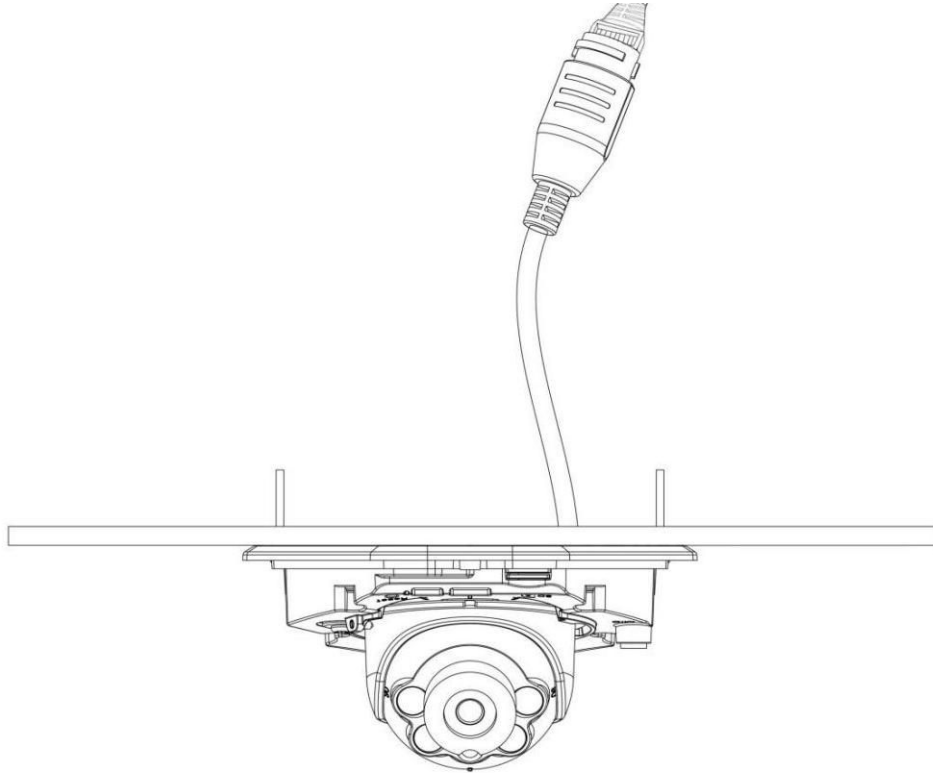
Step1: Remove the dome cover;



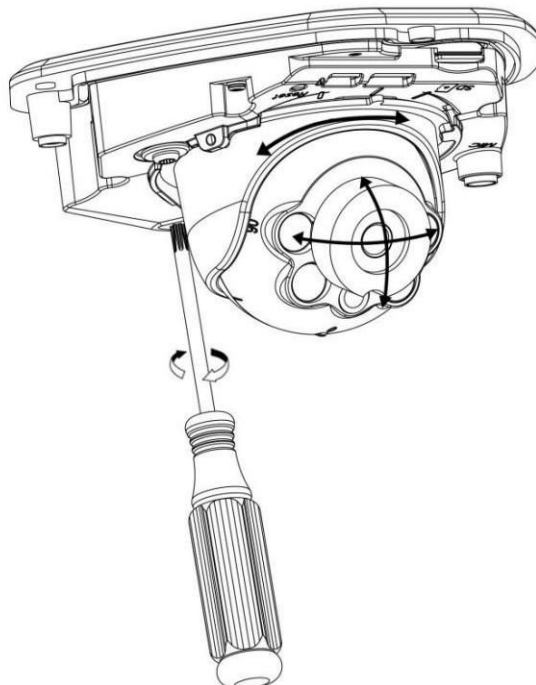
Step2: Secure the screws;



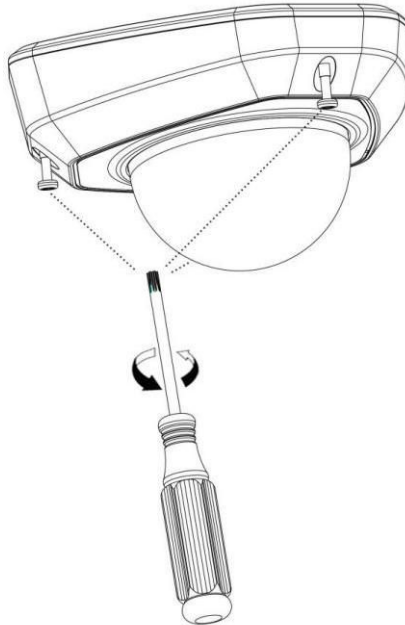
Step3: Connect and route an Ethernet cable through the ceiling or wall;



Step4: Loosen the screw and adjust the lens angle and focus;

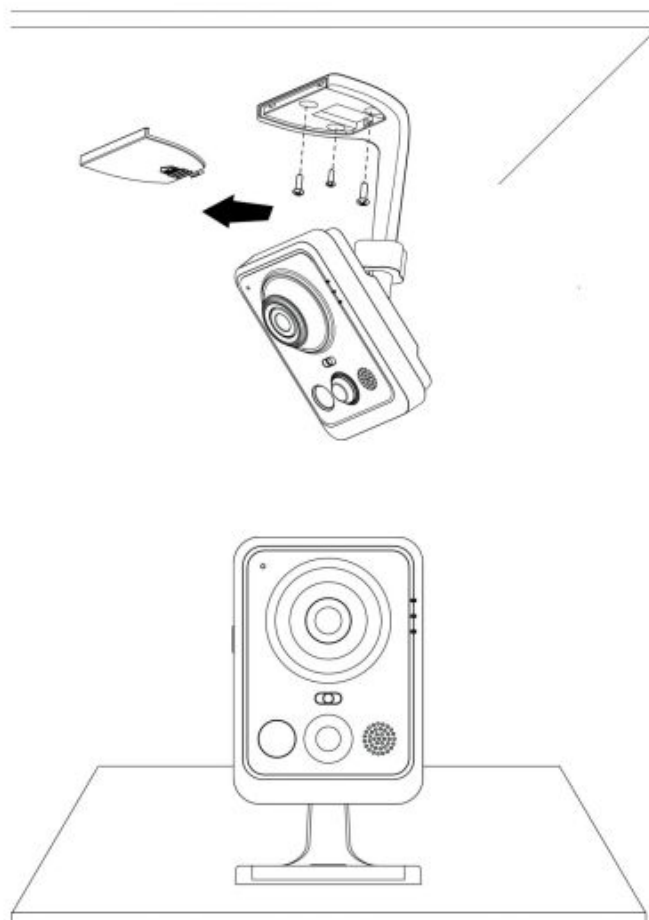


Step5: Attach the dome cover;

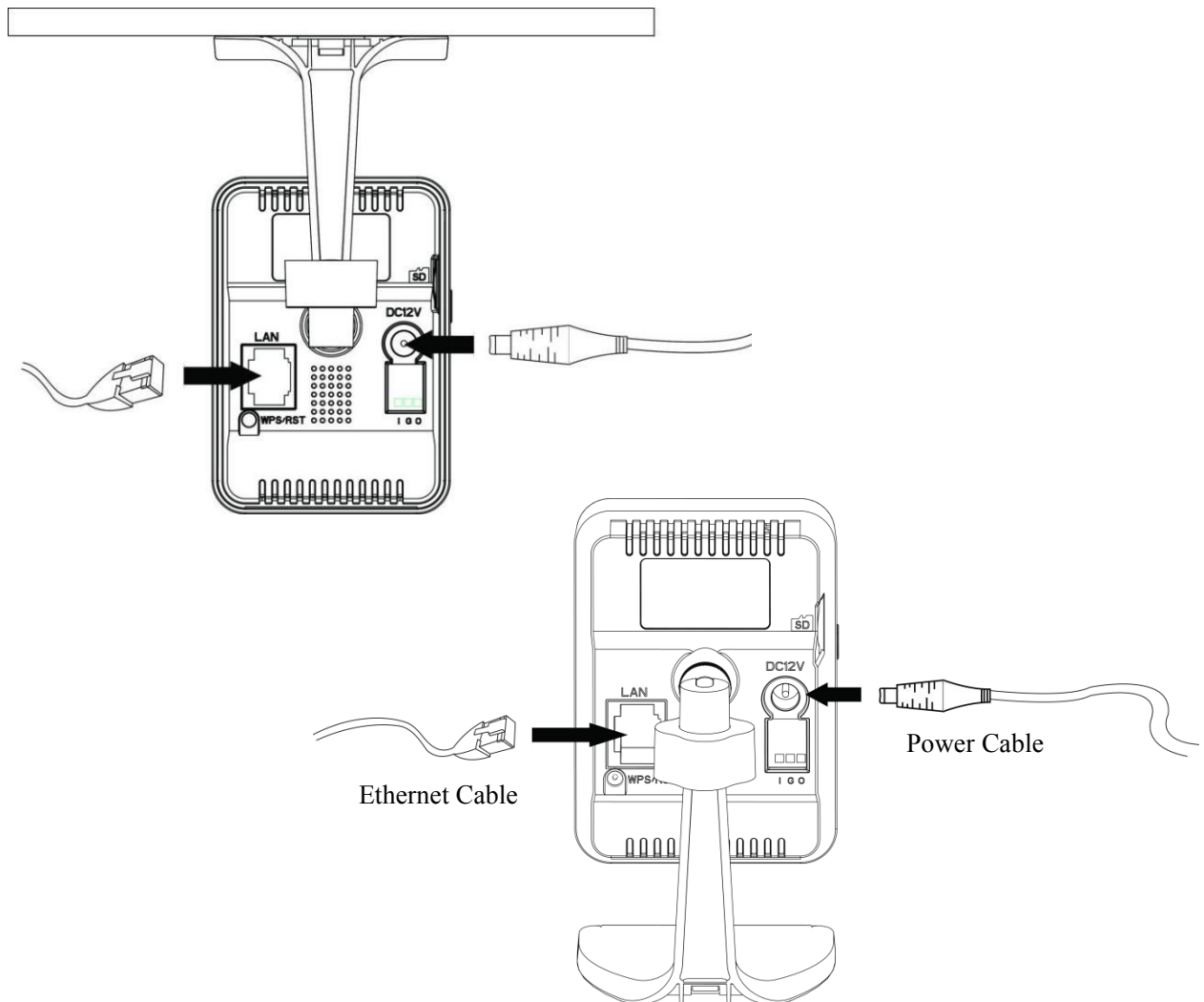


4. Mini Cube Network Camera

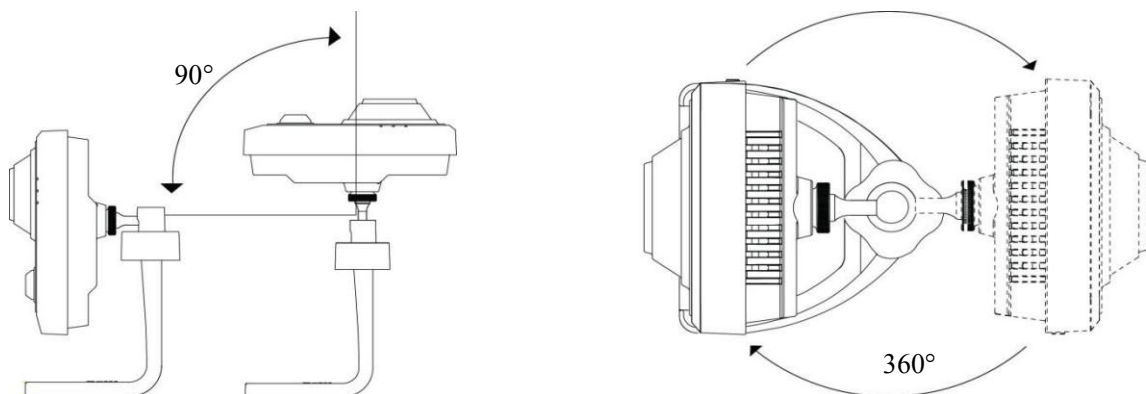
Step1: Mount the cube camera to the ceiling or wall, or place the cube camera horizontally;



Step2: Connect the power adapter and Ethernet cable;



Step3: Adjust the shooting direction;

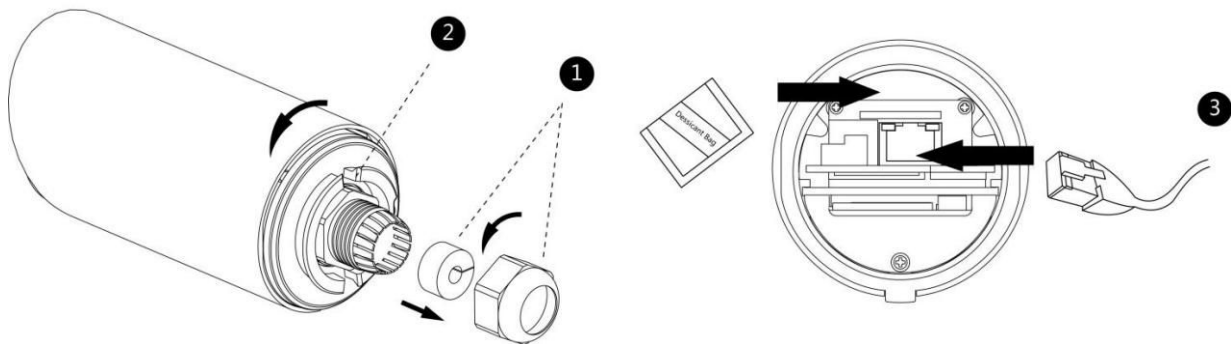


5. Mini Bullet Network Camera

Step1: Loosen the waterproof connector, and then remove the rubber seal, and the waterproof connector;

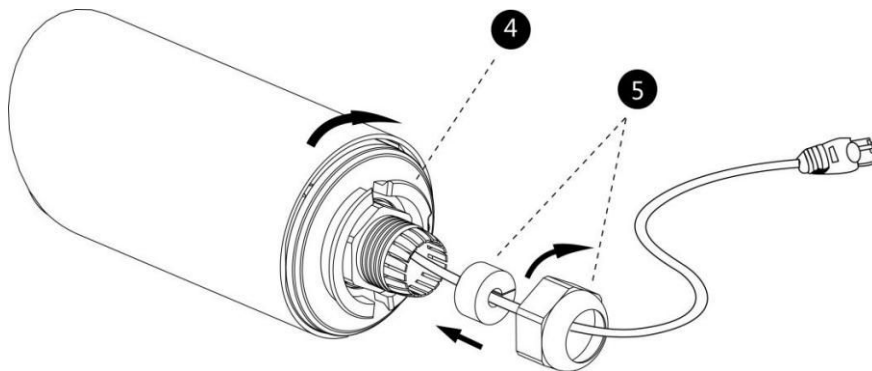
Step2: Loosen and open the rear cover;

Step3: Install a Micro SD/SDHC card, connect an Ethernet cable and pass it through the rubber seal, attach the supplied desiccant bag to the inner side of the network camera (Please replace the desiccant bag with a new one once you open the rear cover);

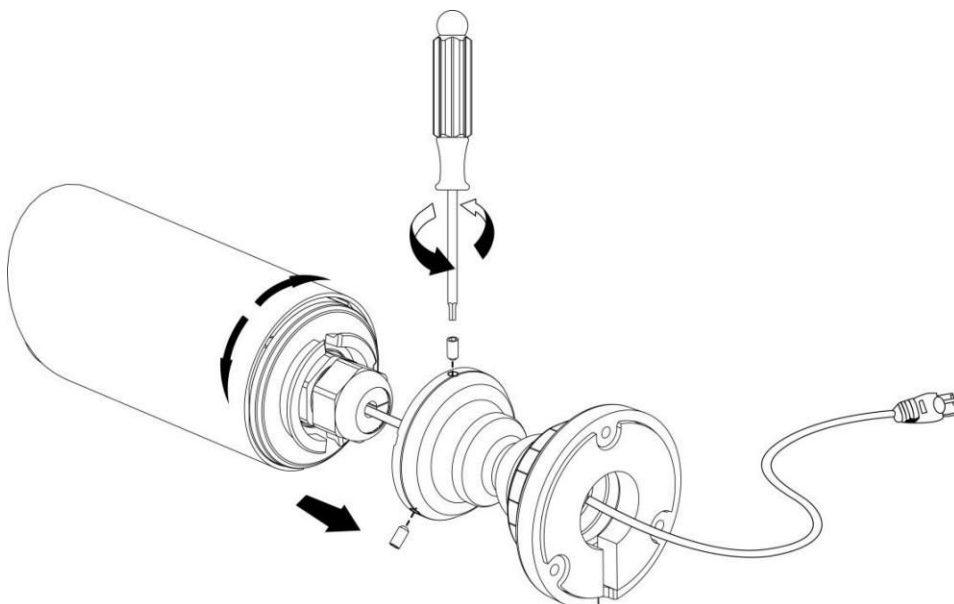


Step4: Install and tighten the rear cover;

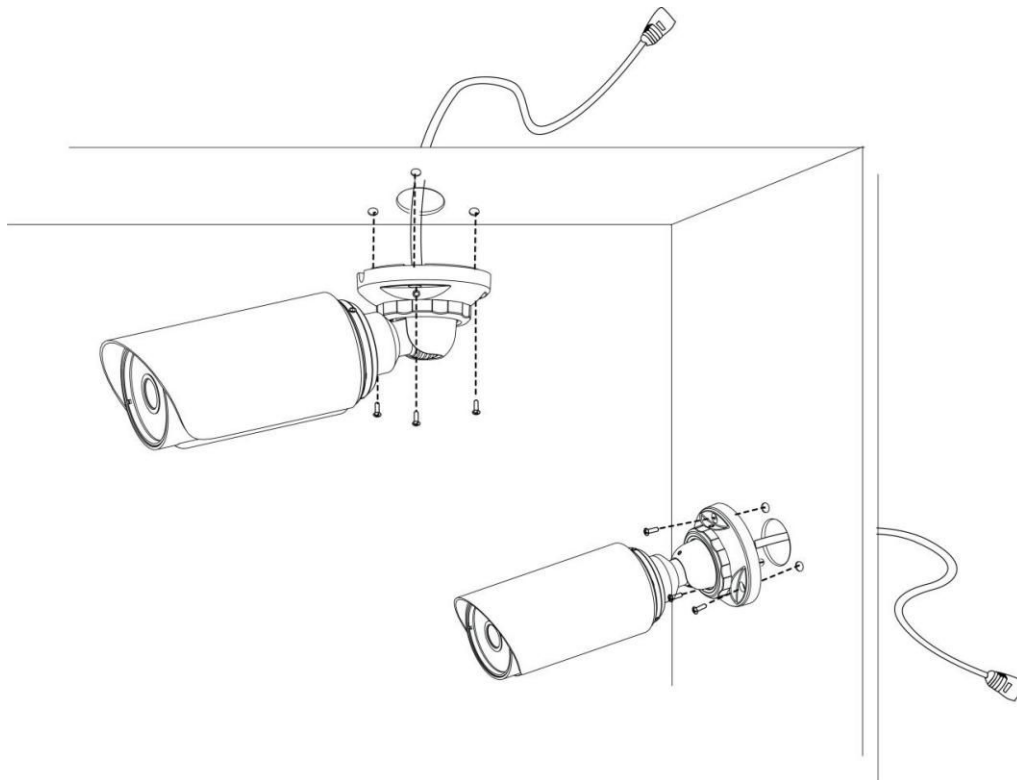
Step5: Tighten the rubber seal, seal clamp, and cap nut of the waterproof connector;



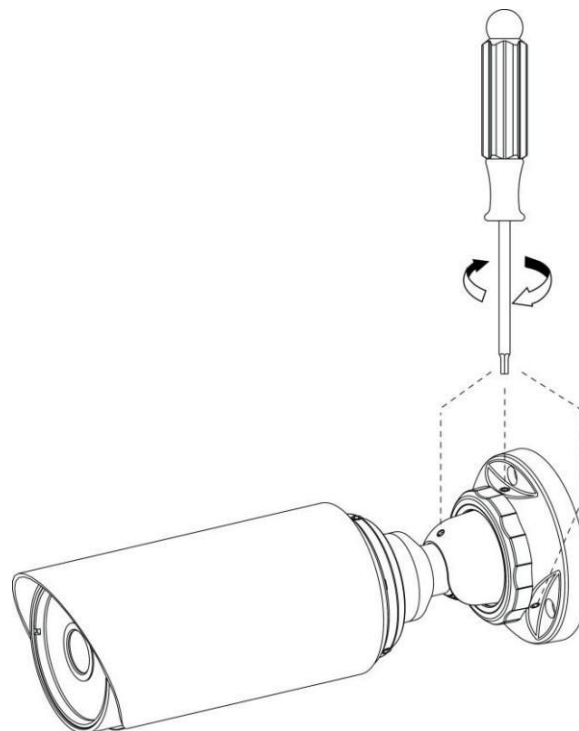
Step6: Pass the Ethernet cable through the center of the mount bracket, put the bracket and camera together, rotate the bracket and fasten the bracket using screws;

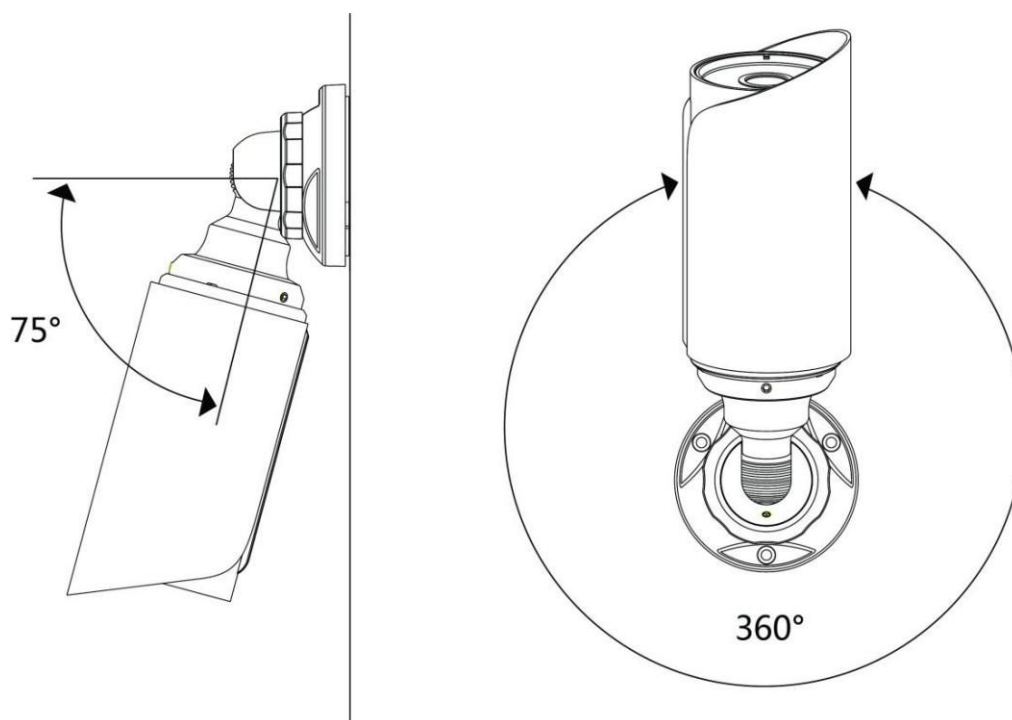


Step7: Mount the camera to the ceiling or wall;

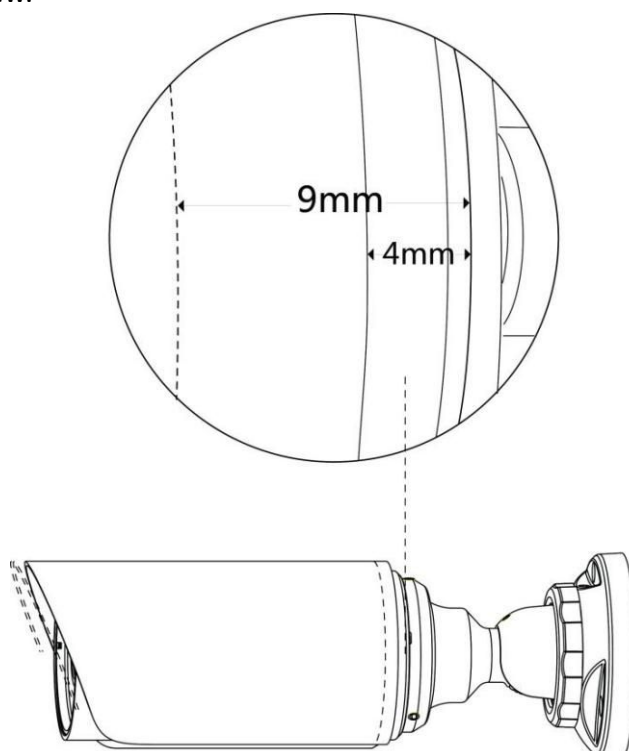


Step8: Adjust the shooting direction;



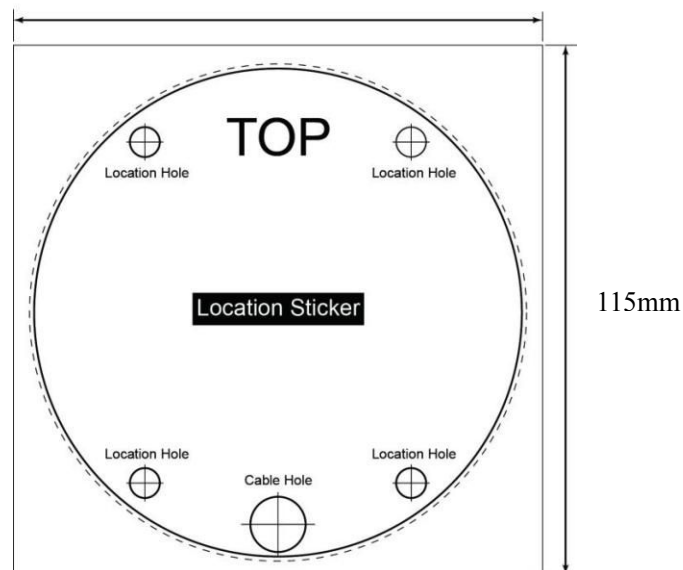
**Note:**

The upper cover of the mini bullet camera could only be moved forward for 5mm at most to ensure better field of view.

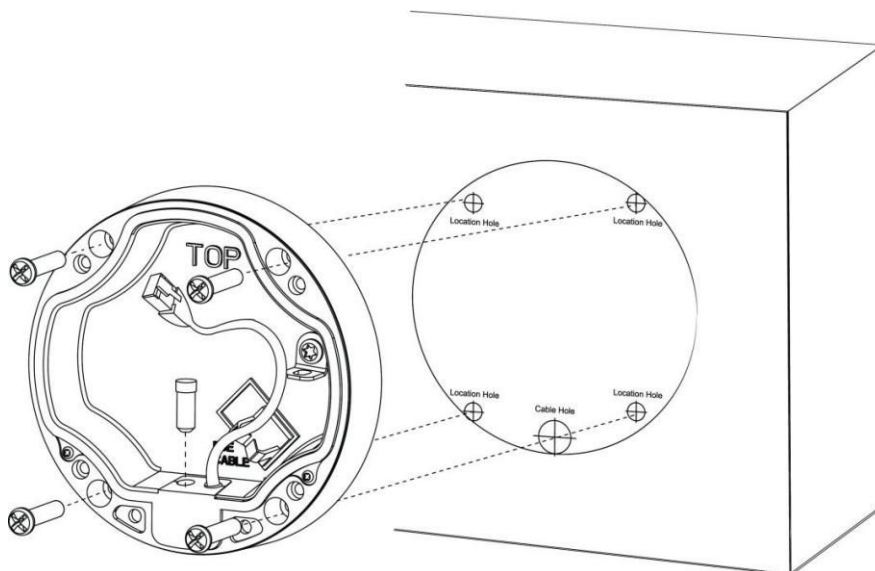


6. Pro Bullet Network Camera

Step1: Fix a sticker in the position where you want to install your camera;

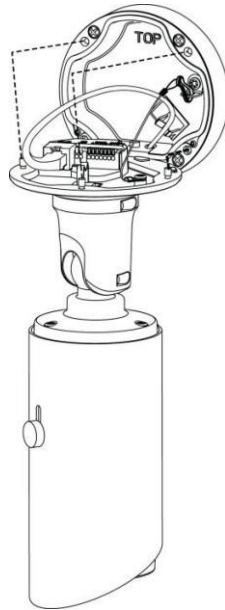


Step2: Pass the Ethernet cable through the rear cover and fasten the rear cover to the ceiling or wall;

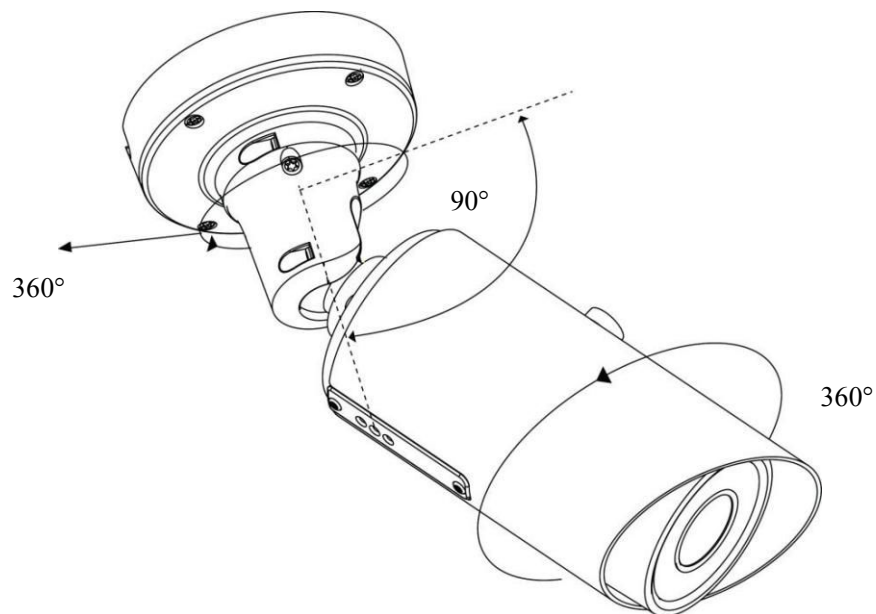


Step3: Connect an Ethernet cable and hook for your camera with a hang rope;

Step4: Install and tighten the rear cover and fasten the bracket to the camera using 4 plum flower head screws;

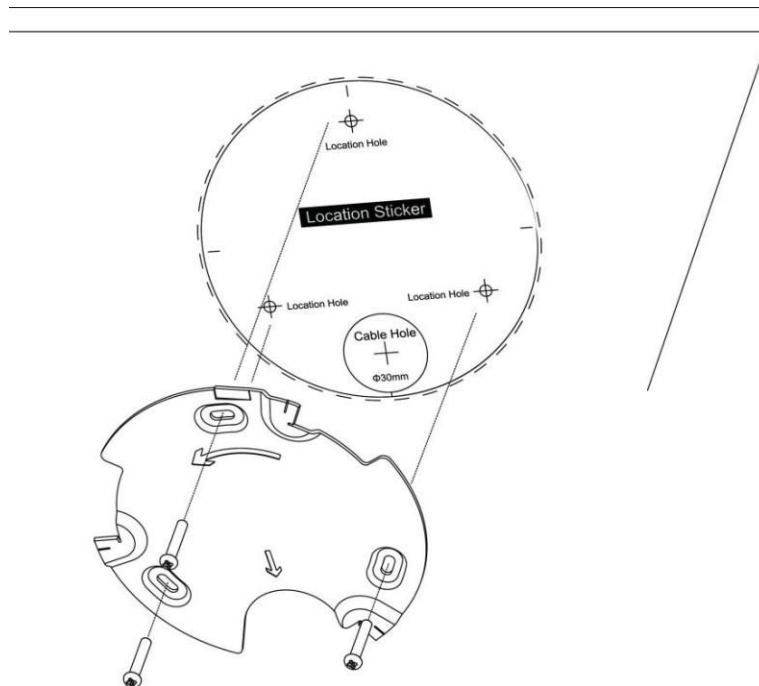


Step5: Adjust the shooting direction;

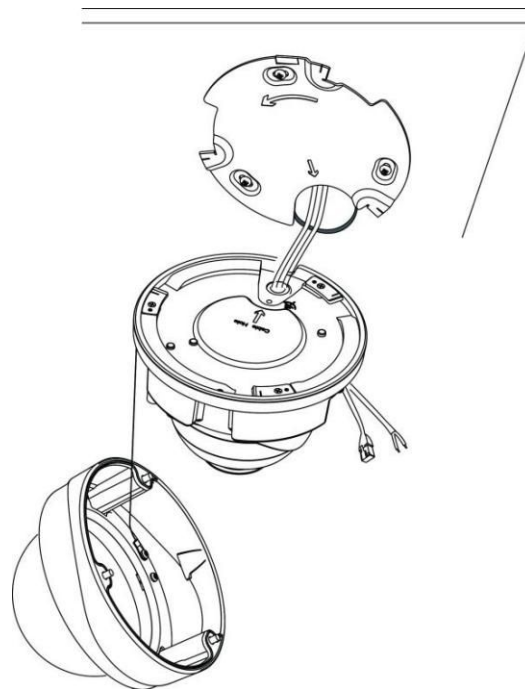


7. Pro Dome Network Camera

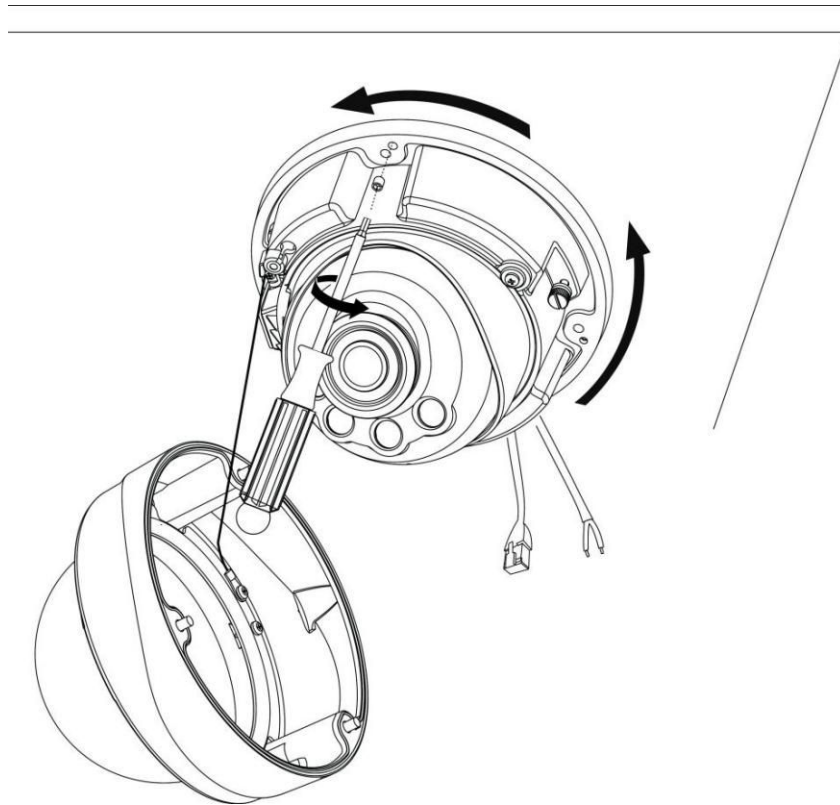
Step1: Fix a sticker in the position where you want to install your camera. Install the supplied bracket on the ceiling or wall, secure the screws;



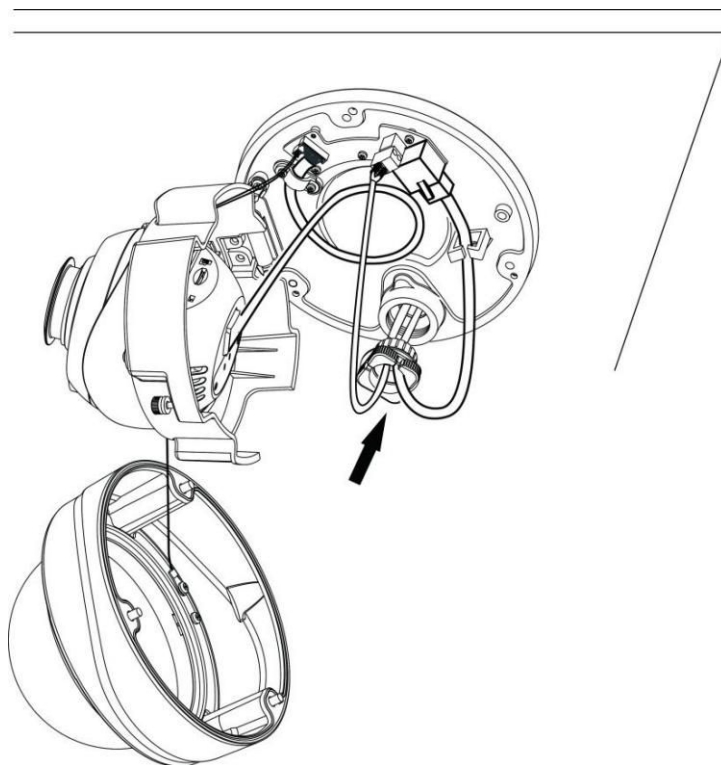
Step2: Connect an Ethernet and pass it through the rubber seal;



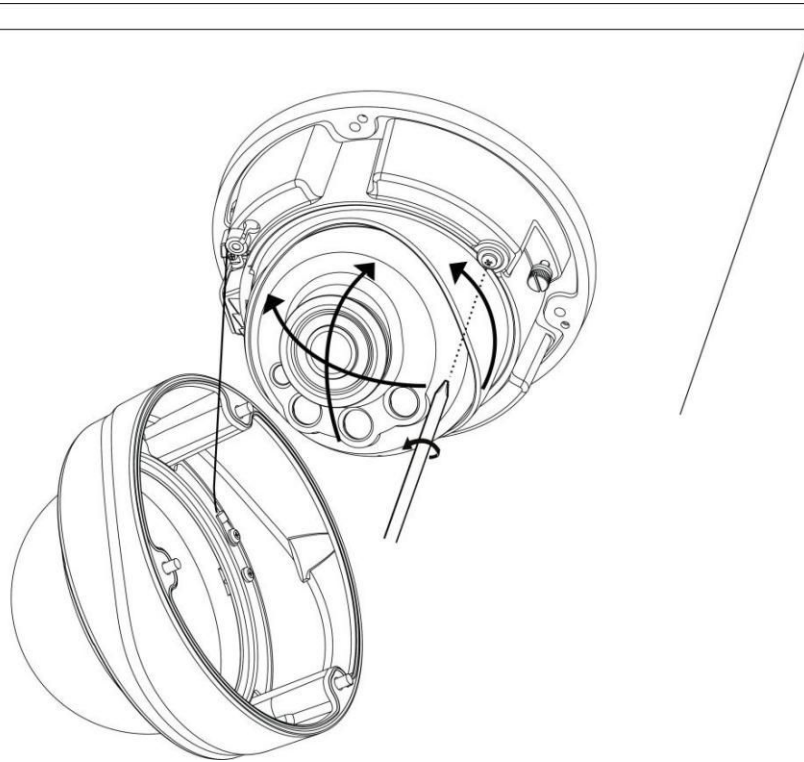
Step3: Rotate the camera unit according to the direction shown in the picture, and then attach the camera unit to the bracket with the supplied screws;



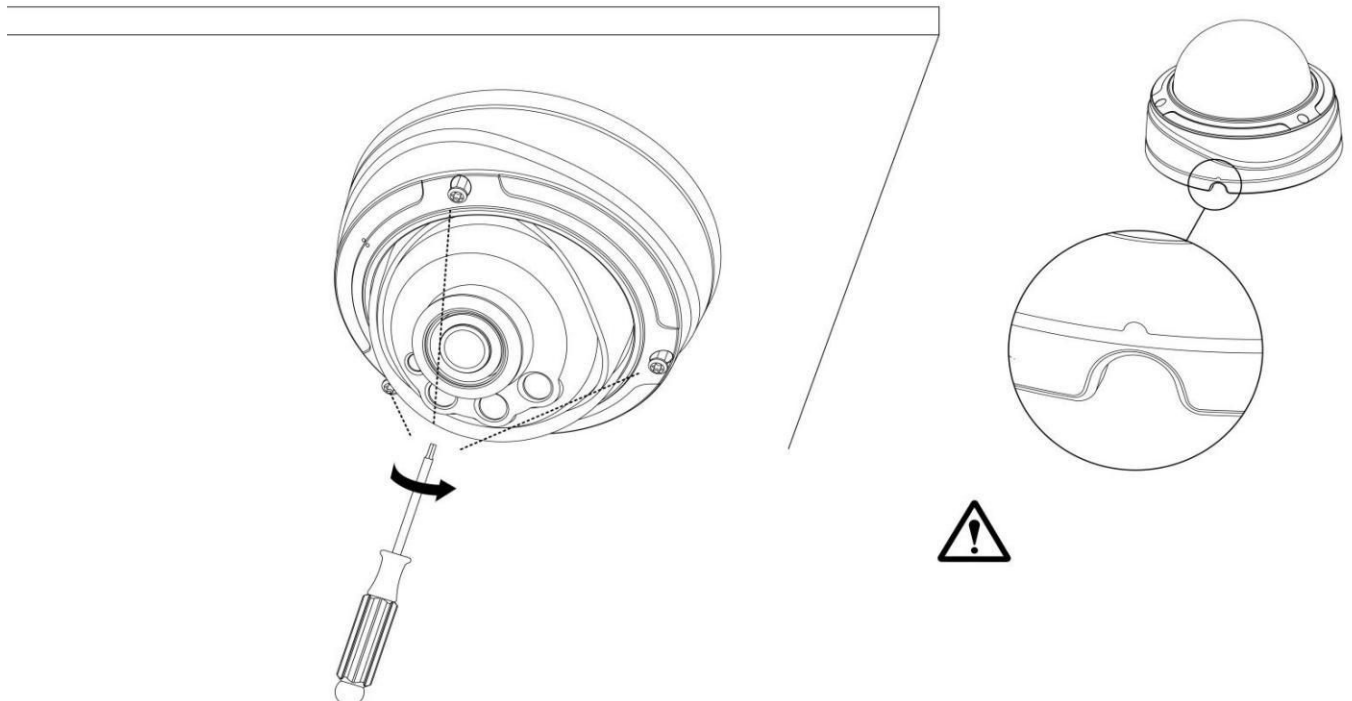
Step4: Connect and route an Ethernet cable and the power source through the ceiling or wall, then attach the camera unit to the bracket;



Step5: Loosen the camera head fixing screw. Adjust the camera to turn the lens in the desired direction. Tighten the camera head fixing screw to fix the camera;

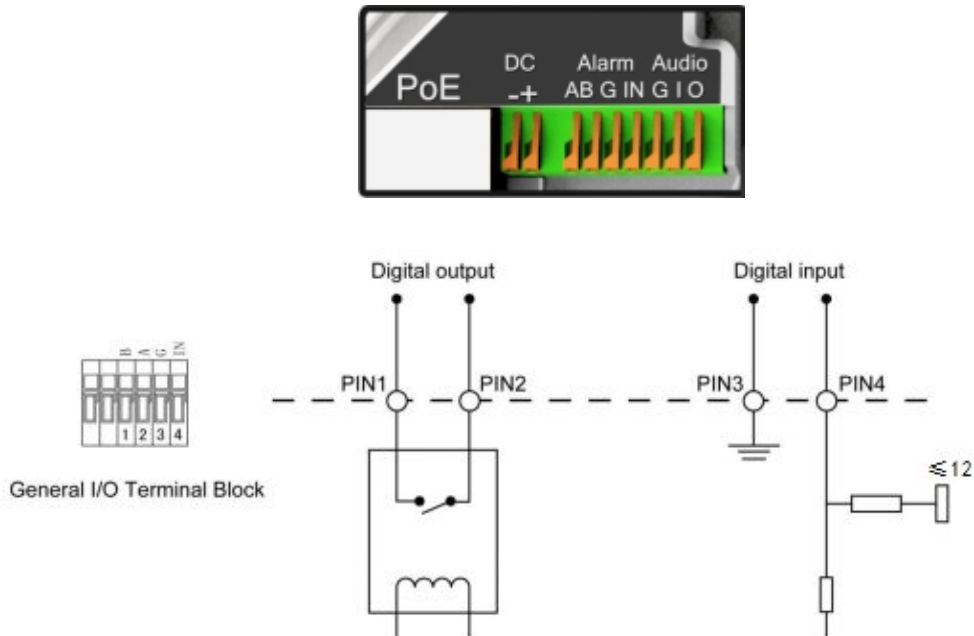


Step6: Attach the dome cover;



1.5 How to Connect to Alarm Interface

External interface of camera is as the following, you can refer to the picture to install the external alarm device:



PIN1: A/B

PIN2: A/B

PIN3: Connect with G(ground)

PIN4: Connect with input $\leq 12V$

1.6 System Requirements

Operating System: Windows XP/Vista/7/8/10/Server 2000/Server 2008

CPU: 1.66GHz or higher

RAM: 1G or higher

Graphic memory: 128MB or more

Internet protocol: TCP/IP (IPv4/IPv6)

Web Browsers: Internet Explorer 8.0 and above version, Mozilla Firefox, Google Chrome and Safari.

Chapter II Network Connection

2.1 Setting the Camera over the LAN

Connecting the camera to a switch or a router is the most common connection method. The camera must be assigned an IP address that is compatible with its LAN.

2.1.1 Connect the Camera to the PC Directly

In this method, only the computer connected to the camera will be able to view the camera. The camera must be assigned a compatible IP address to the computer. Details are shown as the following figure.

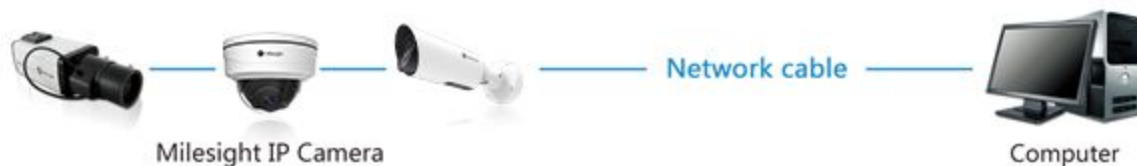


Figure 2-1-1 Connect the camera to the PC directly

2.1.2 Connect via a Switch or a Router

Refer to the following figure to set network camera over the LAN via the switch or router.

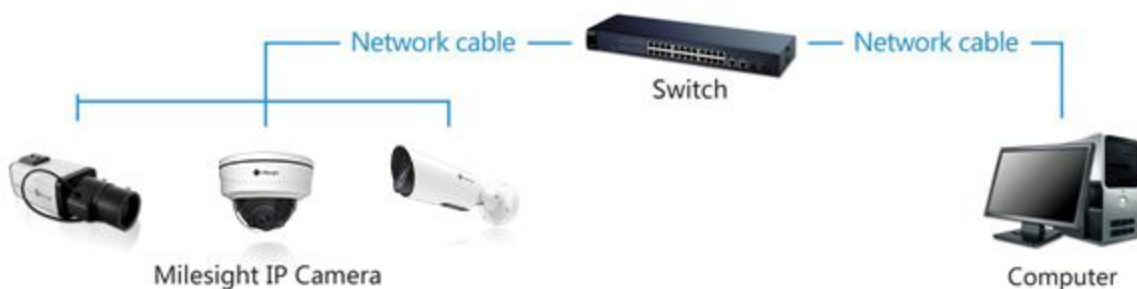


Figure 2-1-2 Connect via a switch or a Router

2.2 Setting the camera over the WAN

The camera could be connected to the WAN directly. You need to set the static or dynamic WAN IP

address assigned by the ISP (Internet Service Provider).

2.2.1 Static IP Connection

◆ Connecting the network camera with public IP directly

You can also set a public IP of the camera and directly connect it to the internet without using a router. Details are as follows.

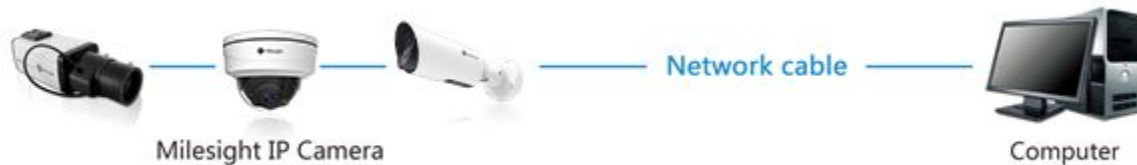


Figure 2-2-1 Connecting the network camera with public IP directly

◆ Connecting the network camera via a router

- Step1: Connect the network camera to a router;
- Step2: Assign a LAN IP address, the Subnet mask and the Gateway;
- Step3: Set port mapping, E.g. 80, 8000 and 554 ports. The steps for port mapping vary depending on different routers. Please call the router manufacturer for assistance with port mapping;
- Step4: Visit the network camera through a web browser or Milesight VMS over the internet.



Figure 2-2-2 Connecting the network camera via a router using static IP

2.2.2 Dynamic IP Connection

◆ Connecting the network camera via a router

- Step1: Connect the network camera to a router;
- Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;
- Step3: On the router, set port mapping. E.g. 80, 8000 and 554 ports. The steps for port mapping vary depending on different routers. Please call the router manufacturer for assistance with port mapping;
- Step4: Apply a domain name from a domain name provider;
- Step5: Configure the DDNS settings in the setting interface of the router;
- Step6: Visit the camera via the domain name.



Figure 2-2-3 Connecting the network camera via a router using dynamic IP

Chapter III Accessing the Network Camera

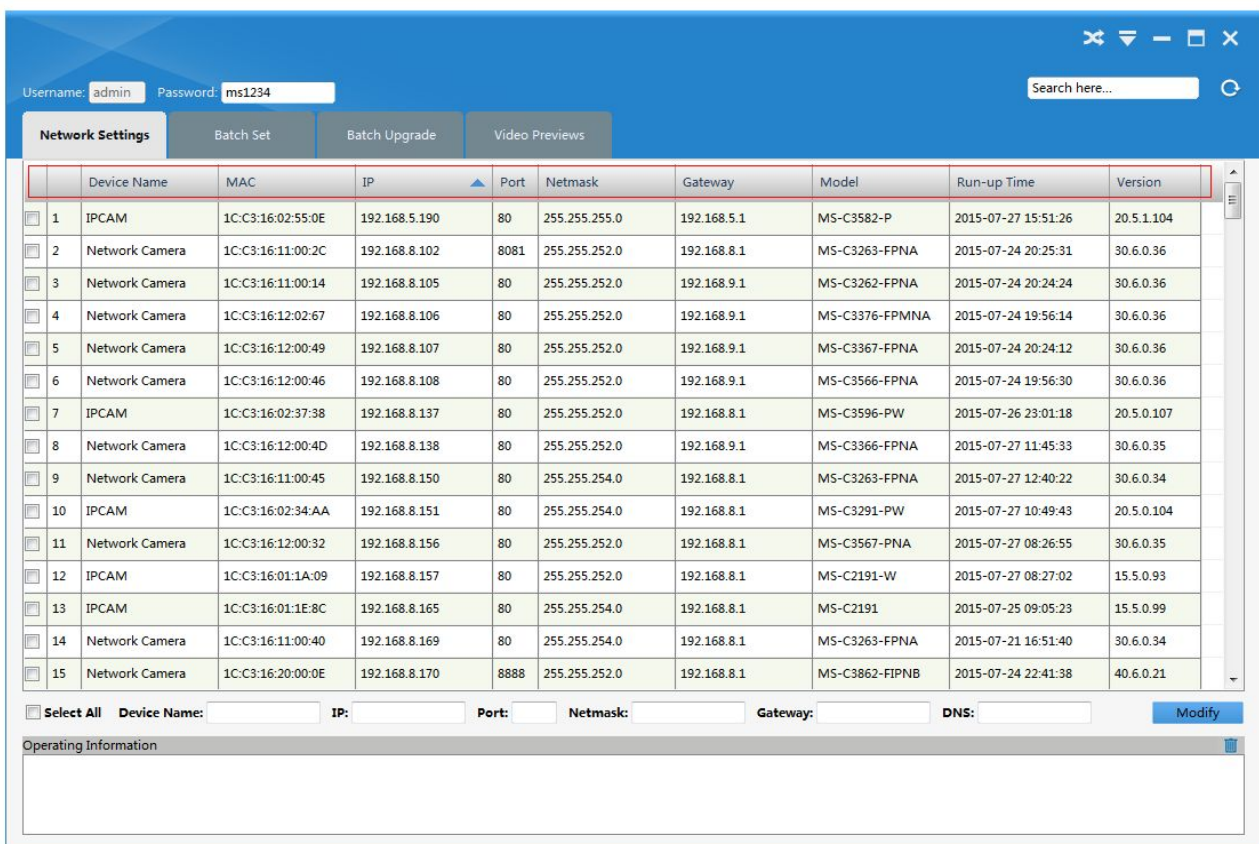
3.1 Assigning An IP Address

The camera must be assigned an IP address to be accessible. The default IP address of Milesight network camera is 192.168.5.190. The default user name is “admin”, and password is “ms1234”. You can either change the IP address of the camera via IPCTools or browser. Please connect the camera in the same LAN of your computer.

3.1.1 Assigning An IP Address Using IPCTools

IPCTools is a software tool which can automatically detect multiple online Milesight network cameras connected in the LAN, set IP addresses, and manage firmware upgrades. It's recommended when assigning IP addresses for multiple cameras.

- Step1: Install IPCTools (The software could be downloaded from our website www.milesight.com);
- Step2: Start IPCTools, and the device information including IP address, MAC address, Port number, Netmask, and Gateway of all Milesight network cameras will be displayed. Details are shown as Figure 3-1-1;

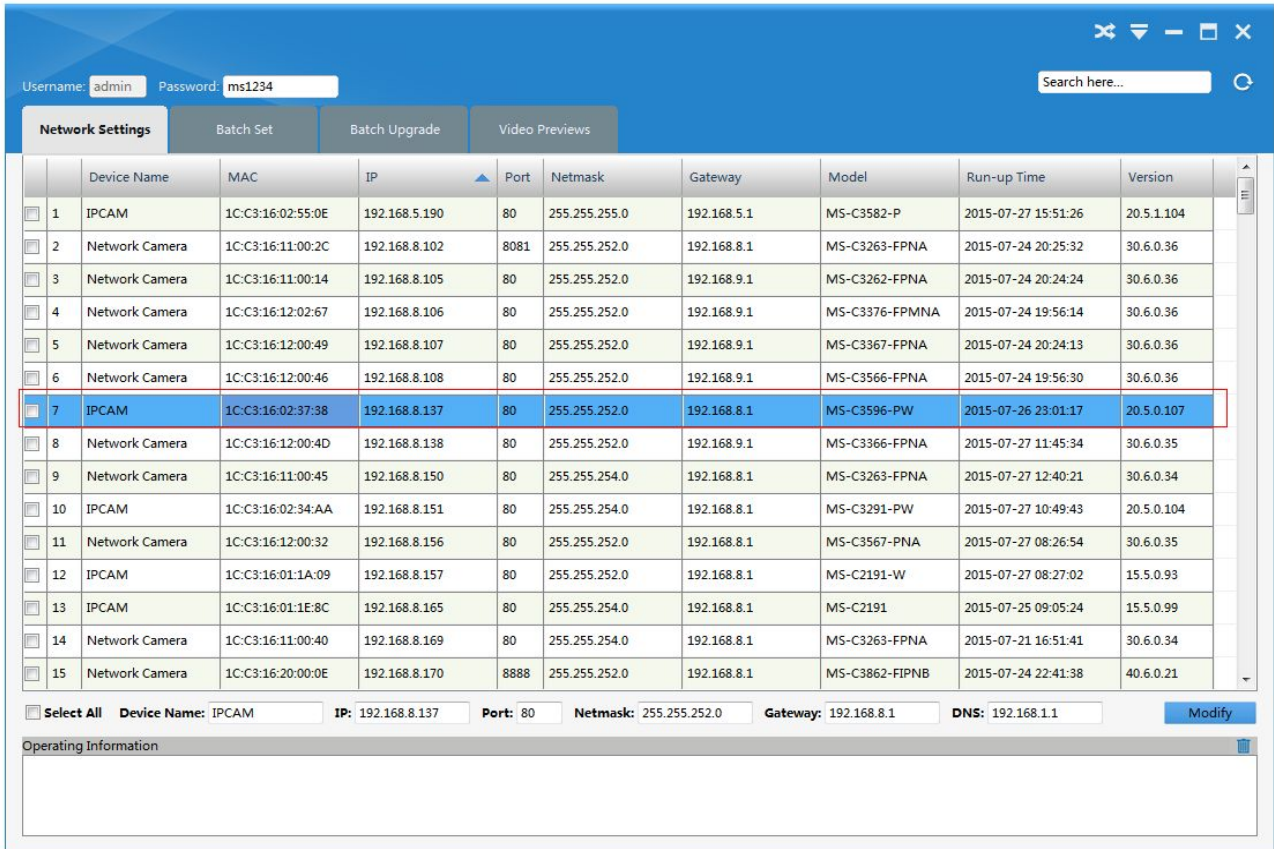


The screenshot shows the IPCTools application window. At the top, there are fields for 'Username: admin' and 'Password: ms1234', along with a 'Search here...' button. Below these are tabs for 'Network Settings', 'Batch Set', 'Batch Upgrade', and 'Video Previews'. The main area displays a table of 15 detected devices. The table has columns for Device Name, MAC, IP, Port, Netmask, Gateway, Model, Run-up Time, and Version. The devices are listed with their respective details, including IP addresses ranging from 192.168.5.190 to 192.168.8.170. At the bottom, there are input fields for 'Select All', 'Device Name', 'IP', 'Port', 'Netmask', 'Gateway', and 'DNS', followed by a 'Modify' button. Below the input fields is a section for 'Operating Information'.

	Device Name	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version
1	IPCAM	1C:C3:16:02:55:0E	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C3582-P	2015-07-27 15:51:26	20.5.1.104
2	Network Camera	1C:C3:16:11:00:2C	192.168.8.102	8081	255.255.252.0	192.168.8.1	MS-C3263-FPNA	2015-07-24 20:25:31	30.6.0.36
3	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.9.1	MS-C3262-FPNA	2015-07-24 20:24:24	30.6.0.36
4	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.9.1	MS-C3376-FPMNA	2015-07-24 19:56:14	30.6.0.36
5	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.9.1	MS-C3367-FPNA	2015-07-24 20:24:12	30.6.0.36
6	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.9.1	MS-C3566-FPNA	2015-07-24 19:56:30	30.6.0.36
7	IPCAM	1C:C3:16:02:37:38	192.168.8.137	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2015-07-26 23:01:18	20.5.0.107
8	Network Camera	1C:C3:16:12:00:4D	192.168.8.138	80	255.255.252.0	192.168.9.1	MS-C3366-FPNA	2015-07-27 11:45:33	30.6.0.35
9	Network Camera	1C:C3:16:11:00:45	192.168.8.150	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-27 12:40:22	30.6.0.34
10	IPCAM	1C:C3:16:02:34:AA	192.168.8.151	80	255.255.254.0	192.168.8.1	MS-C3291-PW	2015-07-27 10:49:43	20.5.0.104
11	Network Camera	1C:C3:16:12:00:32	192.168.8.156	80	255.255.252.0	192.168.8.1	MS-C3567-PNA	2015-07-27 08:26:55	30.6.0.35
12	IPCAM	1C:C3:16:01:1A:09	192.168.8.157	80	255.255.252.0	192.168.8.1	MS-C2191-W	2015-07-27 08:27:02	15.5.0.93
13	IPCAM	1C:C3:16:01:1E:8C	192.168.8.165	80	255.255.254.0	192.168.8.1	MS-C2191	2015-07-25 09:05:23	15.5.0.99
14	Network Camera	1C:C3:16:11:00:40	192.168.8.169	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-21 16:51:40	30.6.0.34
15	Network Camera	1C:C3:16:20:00:0E	192.168.8.170	8888	255.255.252.0	192.168.8.1	MS-C3862-FIPNB	2015-07-24 22:41:38	40.6.0.21

Figure 3-1-1 IPCTools

Step3: Select a camera or multiple cameras according to the MAC addresses;



Username: admin Password: ms1234 Search here...

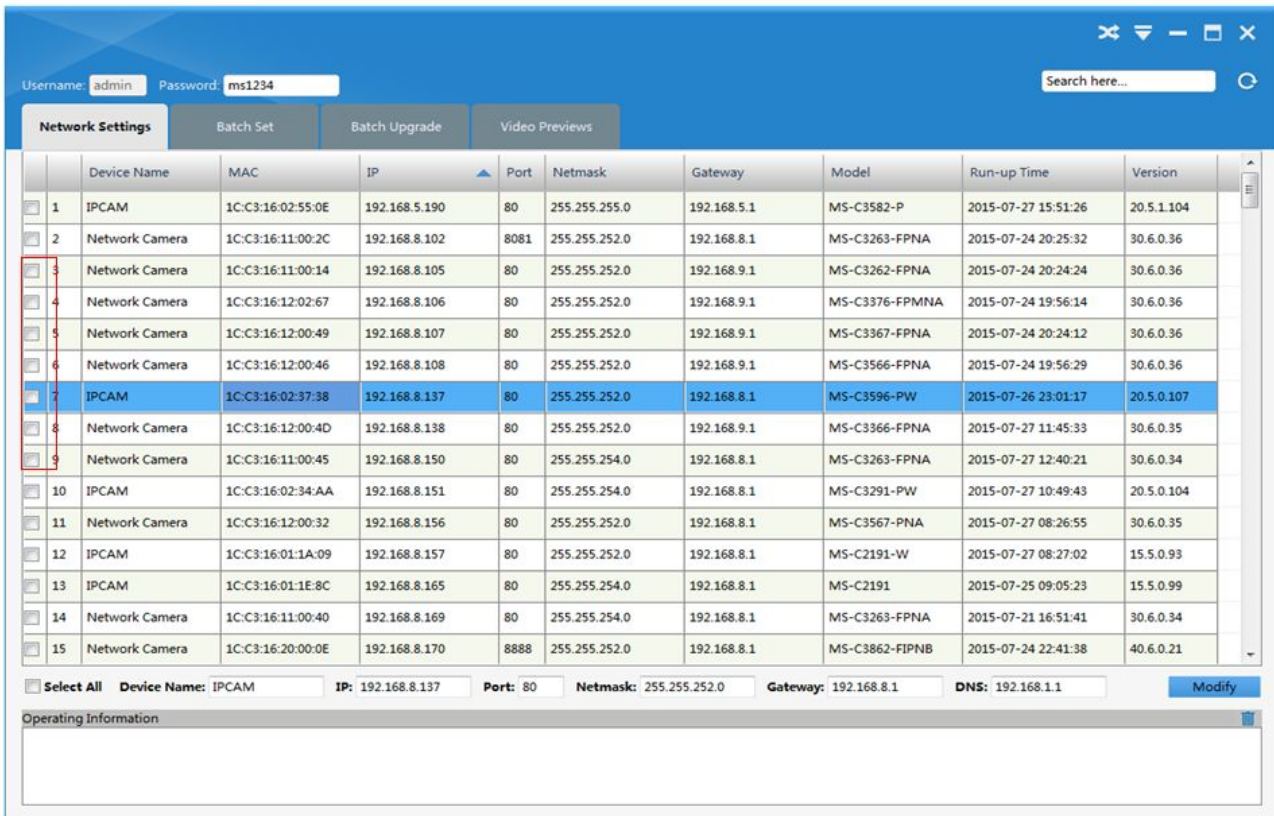
Network Settings Batch Set Batch Upgrade Video Previews

	Device Name	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version
1	IPCAM	1C:C3:16:02:55:0E	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C3582-P	2015-07-27 15:51:26	20.5.1.104
2	Network Camera	1C:C3:16:11:00:2C	192.168.8.102	8081	255.255.252.0	192.168.8.1	MS-C3263-FPNA	2015-07-24 20:25:32	30.6.0.36
3	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.9.1	MS-C3262-FPNA	2015-07-24 20:24:24	30.6.0.36
4	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.9.1	MS-C3376-FPMNA	2015-07-24 19:56:14	30.6.0.36
5	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.9.1	MS-C3367-FPNA	2015-07-24 20:24:13	30.6.0.36
6	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.9.1	MS-C3566-FPNA	2015-07-24 19:56:30	30.6.0.36
7	IPCAM	1C:C3:16:02:37:38	192.168.8.137	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2015-07-26 23:01:17	20.5.0.107
8	Network Camera	1C:C3:16:12:00:4D	192.168.8.138	80	255.255.252.0	192.168.9.1	MS-C3366-FPNA	2015-07-27 11:45:34	30.6.0.35
9	Network Camera	1C:C3:16:11:00:45	192.168.8.150	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-27 12:40:21	30.6.0.34
10	IPCAM	1C:C3:16:02:34:AA	192.168.8.151	80	255.255.254.0	192.168.8.1	MS-C3291-PW	2015-07-27 10:49:43	20.5.0.104
11	Network Camera	1C:C3:16:12:00:32	192.168.8.156	80	255.255.252.0	192.168.8.1	MS-C3567-PNA	2015-07-27 08:26:54	30.6.0.35
12	IPCAM	1C:C3:16:01:1A:09	192.168.8.157	80	255.255.252.0	192.168.8.1	MS-C2191-W	2015-07-27 08:27:02	15.5.0.93
13	IPCAM	1C:C3:16:01:1E:8C	192.168.8.165	80	255.255.254.0	192.168.8.1	MS-C2191	2015-07-25 09:05:24	15.5.0.99
14	Network Camera	1C:C3:16:11:00:40	192.168.8.169	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-21 16:51:41	30.6.0.34
15	Network Camera	1C:C3:16:20:00:0E	192.168.8.170	8888	255.255.252.0	192.168.8.1	MS-C3862-FIPNB	2015-07-24 22:41:38	40.6.0.21

☒ Select All Device Name: IPCAM IP: 192.168.8.137 Port: 80 Netmask: 255.255.252.0 Gateway: 192.168.8.1 DNS: 192.168.1.1 Modify

Operating Information

Figure 3-1-2 Select single camera



Username: admin Password: ms1234 Search here...

Network Settings Batch Set Batch Upgrade Video Previews

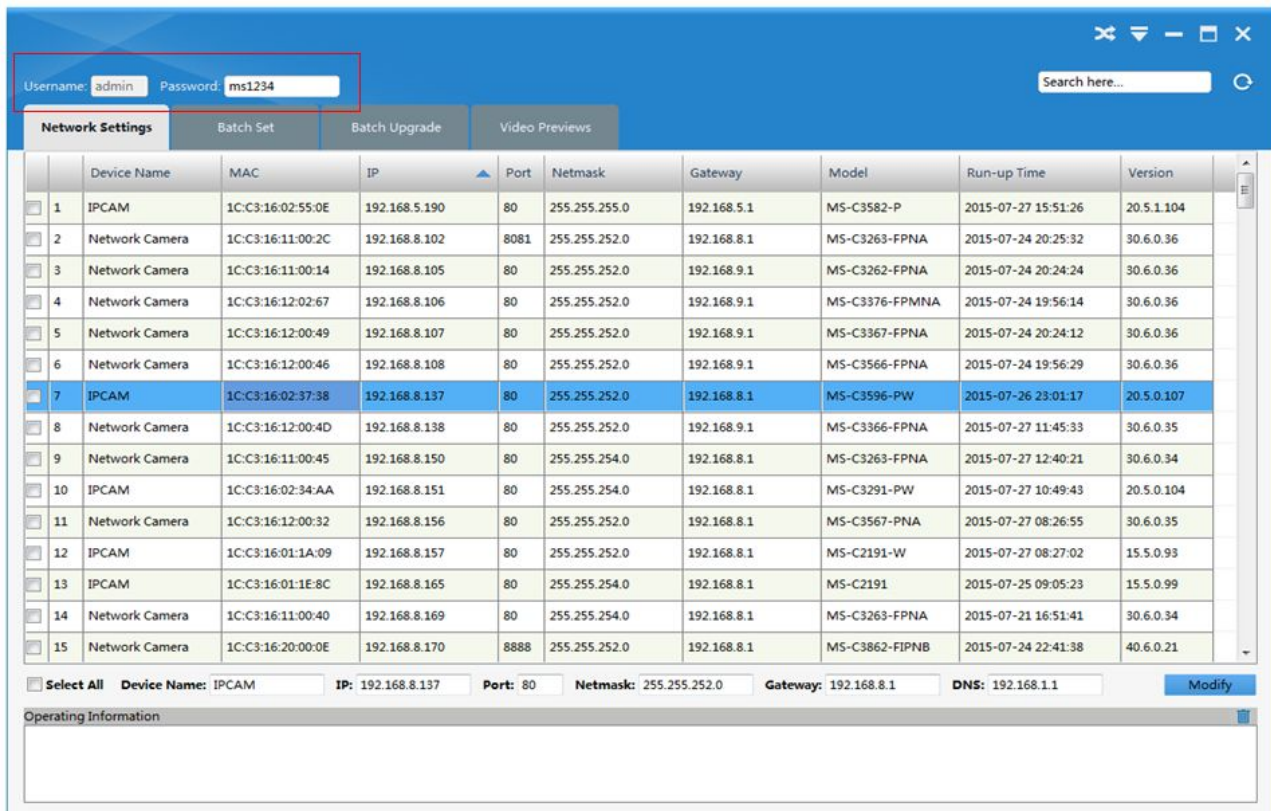
	Device Name	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version
1	IPCAM	1C:C3:16:02:55:0E	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C3582-P	2015-07-27 15:51:26	20.5.1.104
2	Network Camera	1C:C3:16:11:00:2C	192.168.8.102	8081	255.255.252.0	192.168.8.1	MS-C3263-FPNA	2015-07-24 20:25:32	30.6.0.36
3	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.9.1	MS-C3262-FPNA	2015-07-24 20:24:24	30.6.0.36
4	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.9.1	MS-C3376-FPMNA	2015-07-24 19:56:14	30.6.0.36
5	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.9.1	MS-C3367-FPNA	2015-07-24 20:24:12	30.6.0.36
6	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.9.1	MS-C3566-FPNA	2015-07-24 19:56:29	30.6.0.36
7	IPCAM	1C:C3:16:02:37:38	192.168.8.137	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2015-07-26 23:01:17	20.5.0.107
8	Network Camera	1C:C3:16:12:00:4D	192.168.8.138	80	255.255.252.0	192.168.9.1	MS-C3366-FPNA	2015-07-27 11:45:33	30.6.0.35
9	Network Camera	1C:C3:16:11:00:45	192.168.8.150	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-27 12:40:21	30.6.0.34
10	IPCAM	1C:C3:16:02:34:AA	192.168.8.151	80	255.255.254.0	192.168.8.1	MS-C3291-PW	2015-07-27 10:49:43	20.5.0.104
11	Network Camera	1C:C3:16:12:00:32	192.168.8.156	80	255.255.252.0	192.168.8.1	MS-C3567-PNA	2015-07-27 08:26:55	30.6.0.35
12	IPCAM	1C:C3:16:01:1A:09	192.168.8.157	80	255.255.252.0	192.168.8.1	MS-C2191-W	2015-07-27 08:27:02	15.5.0.93
13	IPCAM	1C:C3:16:01:1E:8C	192.168.8.165	80	255.255.254.0	192.168.8.1	MS-C2191	2015-07-25 09:05:23	15.5.0.99
14	Network Camera	1C:C3:16:11:00:40	192.168.8.169	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-21 16:51:41	30.6.0.34
15	Network Camera	1C:C3:16:20:00:0E	192.168.8.170	8888	255.255.252.0	192.168.8.1	MS-C3862-FIPNB	2015-07-24 22:41:38	40.6.0.21

☒ Select All Device Name: IPCAM IP: 192.168.8.137 Port: 80 Netmask: 255.255.252.0 Gateway: 192.168.8.1 DNS: 192.168.1.1 Modify

Operating Information

Figure 3-1-3 Select multiple cameras

Step4: Type the User Name and Password (if they are not the default value.);



Username: admin Password: ms1234

Search here...

Network Settings Batch Set Batch Upgrade Video Previews

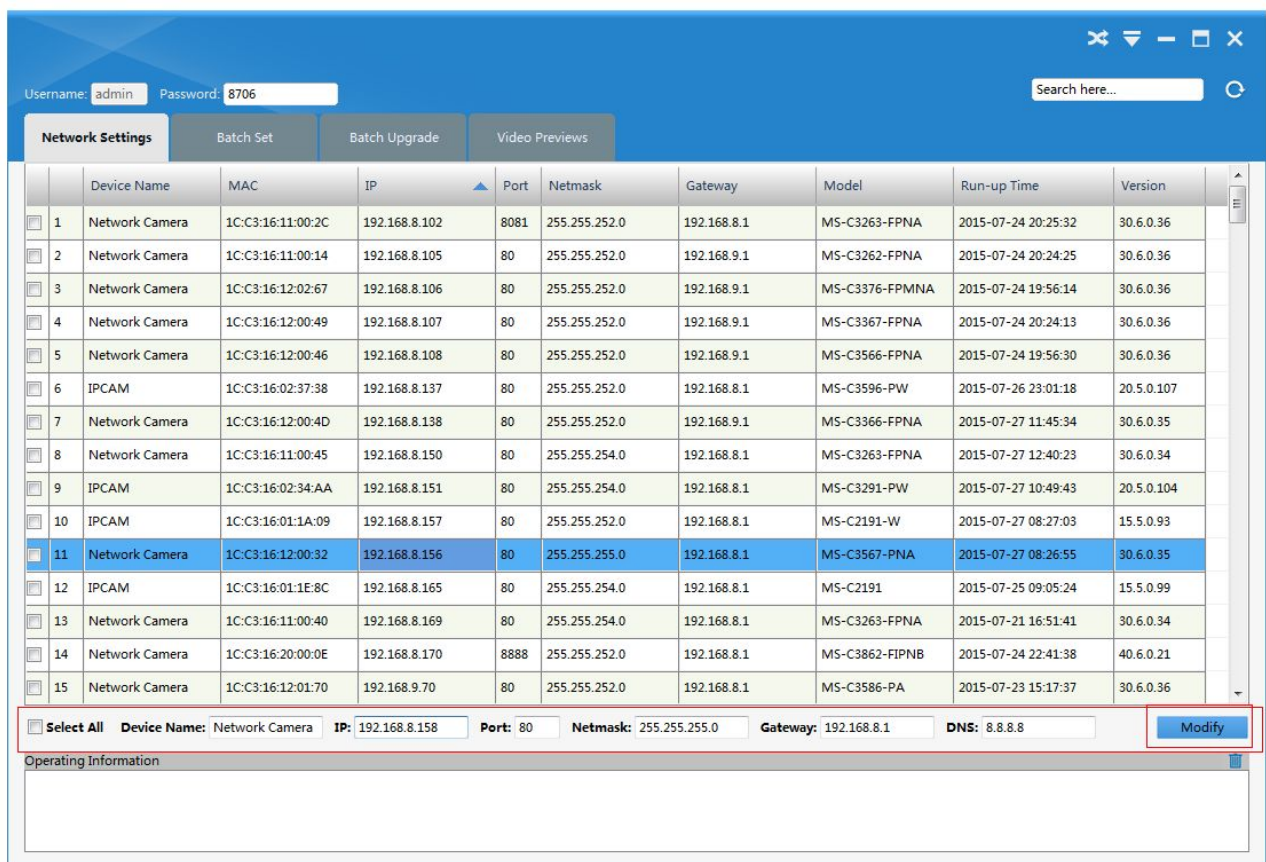
	Device Name	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version
1	IPCAM	1C:C3:16:02:55:0E	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C3582-P	2015-07-27 15:51:26	20.5.1.104
2	Network Camera	1C:C3:16:11:00:2C	192.168.8.102	8081	255.255.252.0	192.168.8.1	MS-C3263-FPNA	2015-07-24 20:25:32	30.6.0.36
3	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.9.1	MS-C3262-FPNA	2015-07-24 20:24:24	30.6.0.36
4	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.9.1	MS-C3376-FPMNA	2015-07-24 19:56:14	30.6.0.36
5	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.9.1	MS-C3367-FPNA	2015-07-24 20:24:12	30.6.0.36
6	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.9.1	MS-C3566-FPNA	2015-07-24 19:56:29	30.6.0.36
7	IPCAM	1C:C3:16:02:37:38	192.168.8.137	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2015-07-26 23:01:17	20.5.0.107
8	Network Camera	1C:C3:16:12:00:4D	192.168.8.138	80	255.255.252.0	192.168.9.1	MS-C3366-FPNA	2015-07-27 11:45:33	30.6.0.35
9	Network Camera	1C:C3:16:11:00:45	192.168.8.150	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-27 12:40:21	30.6.0.34
10	IPCAM	1C:C3:16:02:34:AA	192.168.8.151	80	255.255.254.0	192.168.8.1	MS-C3291-PW	2015-07-27 10:49:43	20.5.0.104
11	Network Camera	1C:C3:16:12:00:32	192.168.8.156	80	255.255.252.0	192.168.8.1	MS-C3567-PNA	2015-07-27 08:26:55	30.6.0.35
12	IPCAM	1C:C3:16:01:1A:09	192.168.8.157	80	255.255.252.0	192.168.8.1	MS-C2191-W	2015-07-27 08:27:02	15.5.0.93
13	IPCAM	1C:C3:16:01:1E:8C	192.168.8.165	80	255.255.254.0	192.168.8.1	MS-C2191	2015-07-25 09:05:23	15.5.0.99
14	Network Camera	1C:C3:16:11:00:40	192.168.8.169	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-21 16:51:41	30.6.0.34
15	Network Camera	1C:C3:16:20:00:0E	192.168.8.170	8888	255.255.252.0	192.168.8.1	MS-C3862-FIPNB	2015-07-24 22:41:38	40.6.0.21

Select All Device Name: IPCAM IP: 192.168.8.137 Port: 80 Netmask: 255.255.252.0 Gateway: 192.168.8.1 DNS: 192.168.1.1 Modify

Operating Information

Figure 3-1-4

Step5: Change the IP address or other network values, and then click “Modify” button;



Username: admin Password: 8706

Search here...

Network Settings Batch Set Batch Upgrade Video Previews

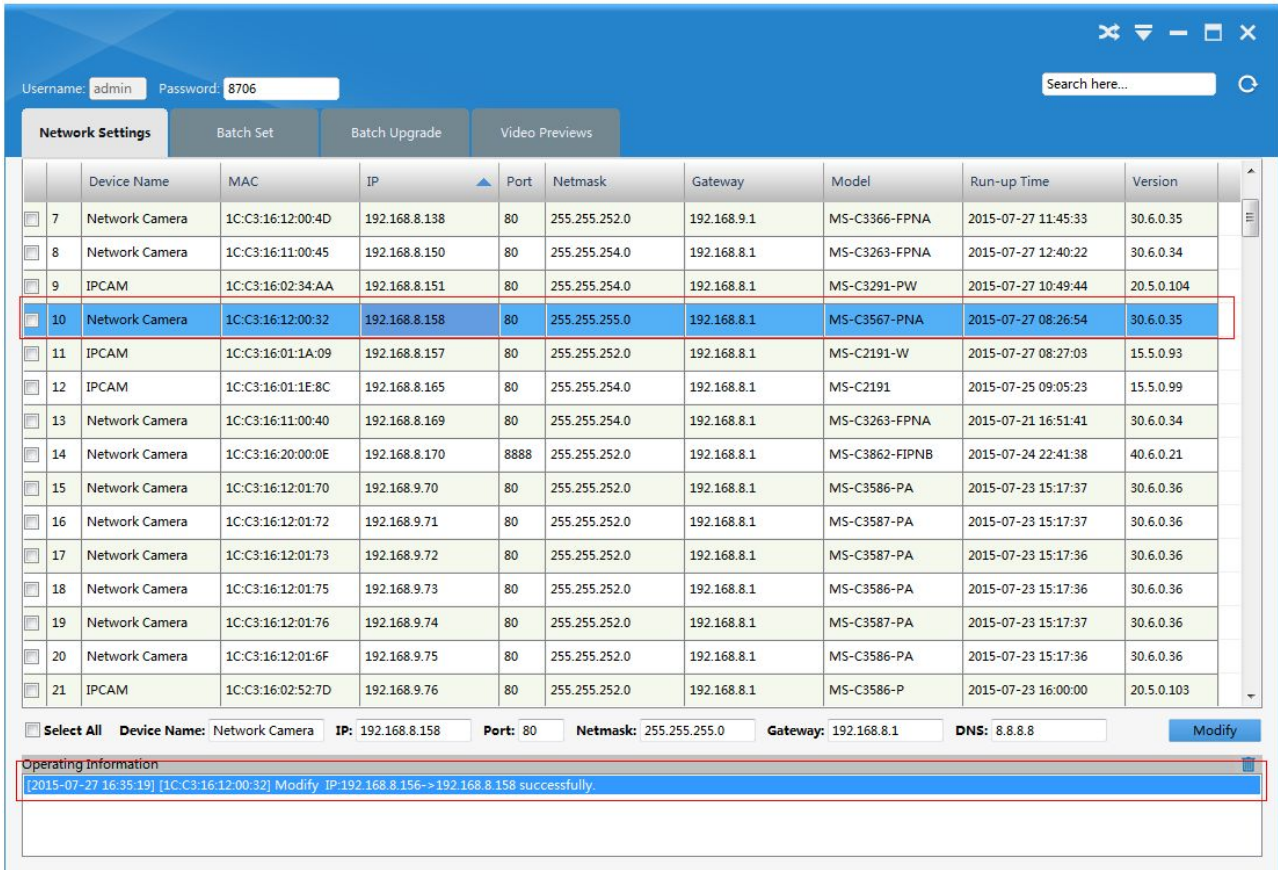
	Device Name	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version
1	Network Camera	1C:C3:16:11:00:2C	192.168.8.102	8081	255.255.252.0	192.168.8.1	MS-C3263-FPNA	2015-07-24 20:25:32	30.6.0.36
2	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.9.1	MS-C3262-FPNA	2015-07-24 20:24:25	30.6.0.36
3	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.9.1	MS-C3376-FPMNA	2015-07-24 19:56:14	30.6.0.36
4	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.9.1	MS-C3367-FPNA	2015-07-24 20:24:13	30.6.0.36
5	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.9.1	MS-C3566-FPNA	2015-07-24 19:56:30	30.6.0.36
6	IPCAM	1C:C3:16:02:37:38	192.168.8.137	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2015-07-26 23:01:18	20.5.0.107
7	Network Camera	1C:C3:16:12:00:4D	192.168.8.138	80	255.255.252.0	192.168.9.1	MS-C3366-FPNA	2015-07-27 11:45:34	30.6.0.35
8	Network Camera	1C:C3:16:11:00:45	192.168.8.150	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-27 12:40:23	30.6.0.34
9	IPCAM	1C:C3:16:02:34:AA	192.168.8.151	80	255.255.254.0	192.168.8.1	MS-C3291-PW	2015-07-27 10:49:43	20.5.0.104
10	IPCAM	1C:C3:16:01:1A:09	192.168.8.157	80	255.255.252.0	192.168.8.1	MS-C2191-W	2015-07-27 08:27:03	15.5.0.93
11	Network Camera	1C:C3:16:12:00:32	192.168.8.156	80	255.255.255.0	192.168.8.1	MS-C3567-PNA	2015-07-27 08:26:55	30.6.0.35
12	IPCAM	1C:C3:16:01:1E:8C	192.168.8.165	80	255.255.254.0	192.168.8.1	MS-C2191	2015-07-25 09:05:24	15.5.0.99
13	Network Camera	1C:C3:16:11:00:40	192.168.8.169	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-21 16:51:41	30.6.0.34
14	Network Camera	1C:C3:16:20:00:0E	192.168.8.170	8888	255.255.252.0	192.168.8.1	MS-C3862-FIPNB	2015-07-24 22:41:38	40.6.0.21
15	Network Camera	1C:C3:16:12:01:70	192.168.9.70	80	255.255.252.0	192.168.8.1	MS-C3586-PA	2015-07-23 15:17:37	30.6.0.36

Select All Device Name: Network Camera IP: 192.168.8.158 Port: 80 Netmask: 255.255.255.0 Gateway: 192.168.8.1 DNS: 8.8.8.8 Modify

Operating Information

Figure 3-1-5

Step6: Change the IP address successfully;



Username: admin Password: 8706 Search here...

Network Settings Batch Set Batch Upgrade Video Previews

	Device Name	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	
☐	7	Network Camera	1C:C3:16:12:00:4D	192.168.8.138	80	255.255.252.0	192.168.9.1	MS-C3366-FPNA	2015-07-27 11:45:33	30.6.0.35
☐	8	Network Camera	1C:C3:16:11:00:45	192.168.8.150	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-27 12:40:22	30.6.0.34
☐	9	IPCAM	1C:C3:16:02:34:AA	192.168.8.151	80	255.255.254.0	192.168.8.1	MS-C3291-PW	2015-07-27 10:49:44	20.5.0.104
☒	10	Network Camera	1C:C3:16:12:00:32	192.168.8.158	80	255.255.255.0	192.168.8.1	MS-C3567-PNA	2015-07-27 08:26:54	30.6.0.35
☐	11	IPCAM	1C:C3:16:01:1A:09	192.168.8.157	80	255.255.252.0	192.168.8.1	MS-C2191-W	2015-07-27 08:27:03	15.5.0.93
☐	12	IPCAM	1C:C3:16:01:1E:8C	192.168.8.165	80	255.255.254.0	192.168.8.1	MS-C2191	2015-07-25 09:05:23	15.5.0.99
☐	13	Network Camera	1C:C3:16:11:00:40	192.168.8.169	80	255.255.254.0	192.168.8.1	MS-C3263-FPNA	2015-07-21 16:51:41	30.6.0.34
☐	14	Network Camera	1C:C3:16:20:00:0E	192.168.8.170	8888	255.255.252.0	192.168.8.1	MS-C3862-FIPNB	2015-07-24 22:41:38	40.6.0.21
☐	15	Network Camera	1C:C3:16:12:01:70	192.168.9.70	80	255.255.252.0	192.168.8.1	MS-C3586-PA	2015-07-23 15:17:37	30.6.0.36
☐	16	Network Camera	1C:C3:16:12:01:72	192.168.9.71	80	255.255.252.0	192.168.8.1	MS-C3587-PA	2015-07-23 15:17:37	30.6.0.36
☐	17	Network Camera	1C:C3:16:12:01:73	192.168.9.72	80	255.255.252.0	192.168.8.1	MS-C3587-PA	2015-07-23 15:17:36	30.6.0.36
☐	18	Network Camera	1C:C3:16:12:01:75	192.168.9.73	80	255.255.252.0	192.168.8.1	MS-C3586-PA	2015-07-23 15:17:36	30.6.0.36
☐	19	Network Camera	1C:C3:16:12:01:76	192.168.9.74	80	255.255.252.0	192.168.8.1	MS-C3587-PA	2015-07-23 15:17:37	30.6.0.36
☐	20	Network Camera	1C:C3:16:12:01:6F	192.168.9.75	80	255.255.252.0	192.168.8.1	MS-C3586-PA	2015-07-23 15:17:36	30.6.0.36
☐	21	IPCAM	1C:C3:16:02:52:7D	192.168.9.76	80	255.255.252.0	192.168.8.1	MS-C3586-P	2015-07-23 16:00:00	20.5.0.103

Select All Device Name: Network Camera IP: 192.168.8.158 Port: 80 Netmask: 255.255.255.0 Gateway: 192.168.8.1 DNS: 8.8.8.8 Modify

Operating Information
[2015-07-27 16:35:19] [1C:C3:16:12:00:32] Modify IP:192.168.8.156->192.168.8.158 successfully.

Figure 3-1-6 Change IP address successfully

Step7: By double clicking the selected camera, you can access the camera via web browser directly.
The Internet Explorer window will pop up.

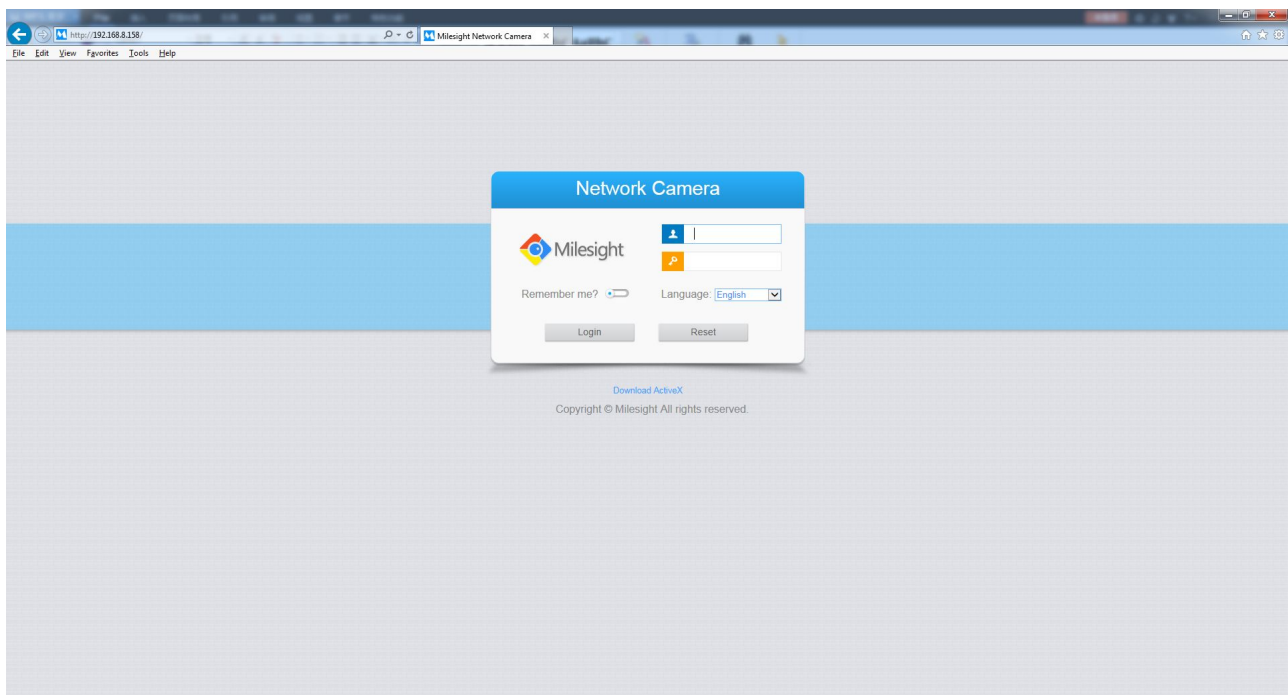


Figure 3-1-7

3.1.2 Assign An IP Address via Browser

If the network segment of the computer and that of the camera are different, please follow the steps to change the IP address:

Step1: Change the IP address of computer to 192.168.5.0 segment, here are two ways as following:

- a. Start-> Control Panel-> Network and Internet Connection-> Network Connection-> Local Area Connection, and double click it. (Refer to Figure 3-1-8);

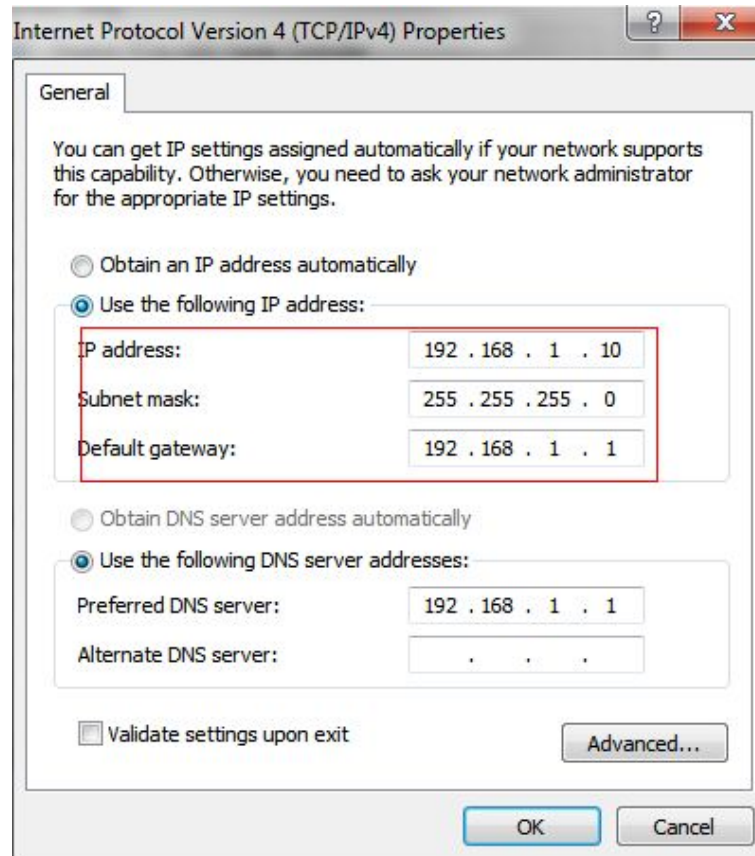


Figure 3-1-8

- b. Click "Advanced", and then click "IP settings"-> "IP address"-> "Add" (See Figure 3-1-9). In the pop-up window, enter an IP address that in the same segment with Milesight network camera (e.g. 192.168.5.61, but please note that this IP address shall not conflict with the IP address on the existing network);

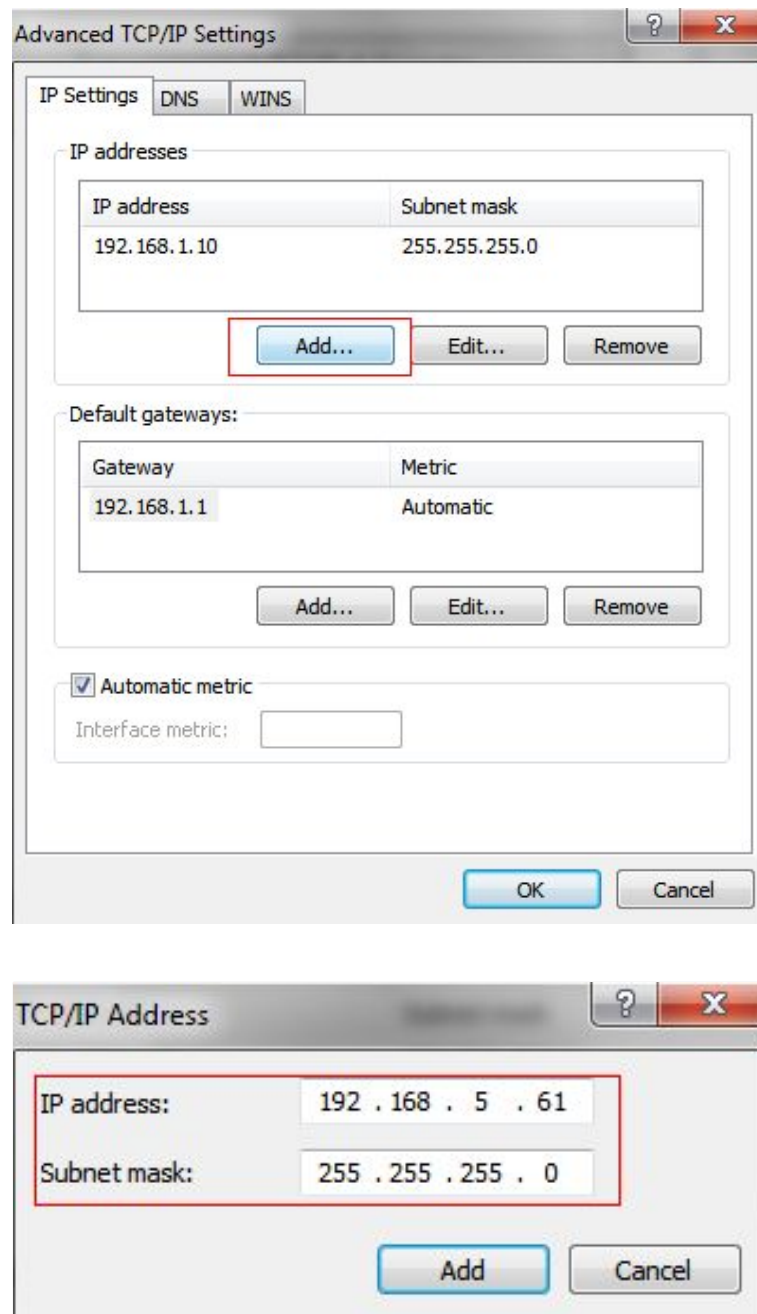


Figure 3-1-9

Step2: Start the browser. In the address bar, enter the default IP address of the camera:

http://192.168.5.190;

Step3: Enter the user name and password when the LOGIN page appears;

Default user name: **admin**

Default password: **ms1234**

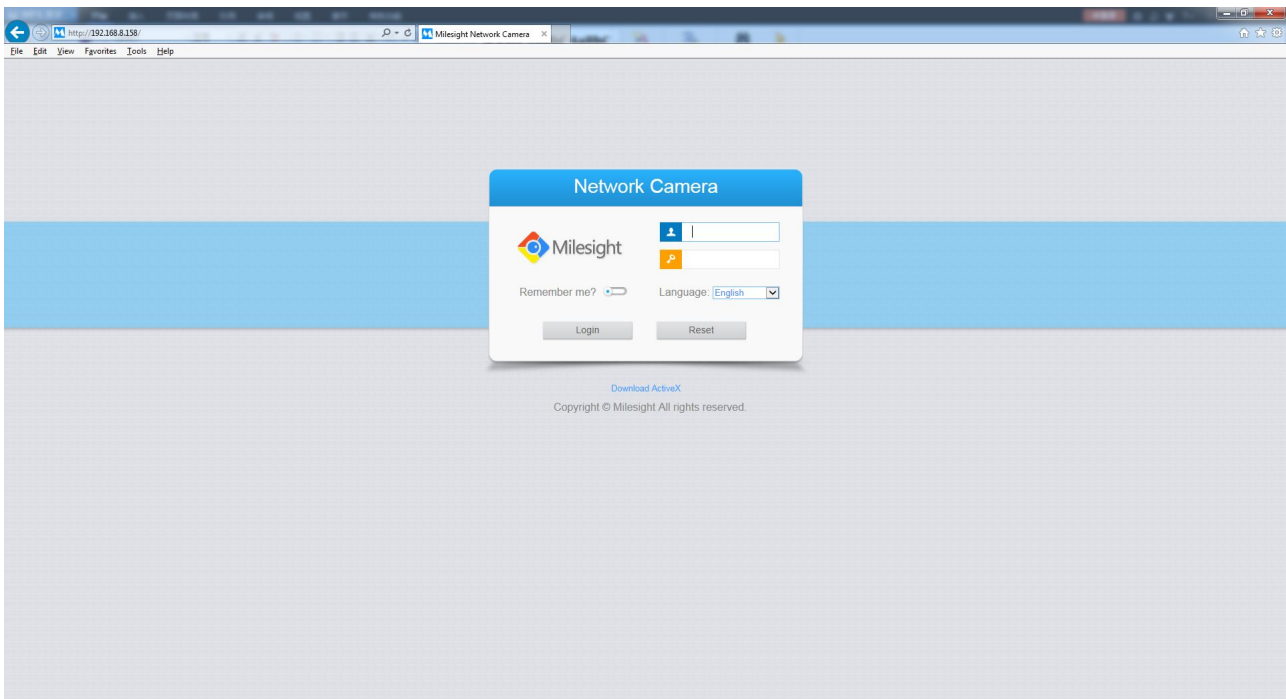


Figure 3-1-10

Step4: After login, please select “Configuration”→ “Basic Settings”→ “Network”→ “TCP/IP”. The Network Settings page appears (Shown as following Figure);

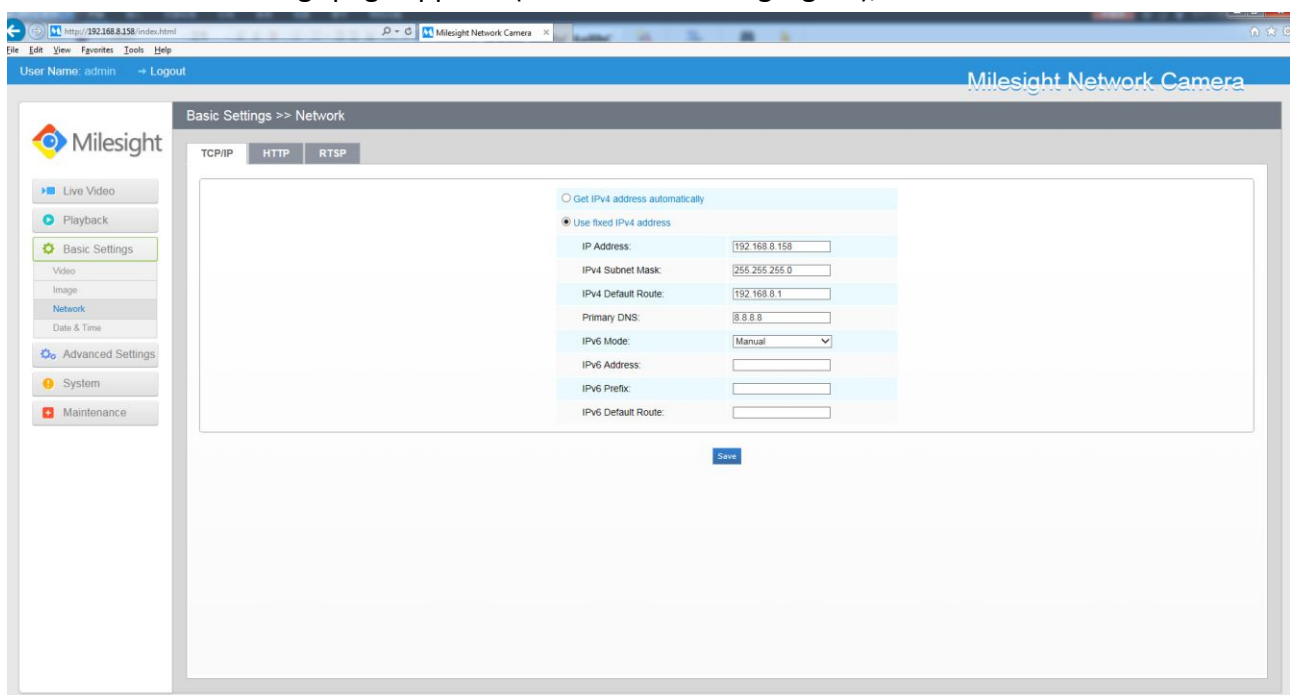


Figure 3-1-11

Step5: Change the IP address or other network values. Then click “Save” button;

Step6: The change of default IP address is completed.

3.2 Accessing from the Web Browser

The camera can be used with the most standard operating systems and browsers. The recommended browsers are Internet Explorer, Firefox, Chrome, Safari.

3.2.1 Access over IE Browser

Before using the browser to get access to your camera, you need to install the MsActiveX firstly. You can refer the steps as follows:

Step1: Launch the IE browser and enter the IP address of the camera.

Step2: Enter the User Name and Password and click "Login".

(The default user name is "admin", password is "ms1234")

Step3: At the first time to log in the device, the browser will prompt to install Controls, please click "Click here to download and install controls manually" as Figure 3-2-1.



Figure 3-2-1

Note:

During installing the controls, please keep the browsers close.

Step4: Follow the prompts to install the Controls, when it's finished, it will pop out a window as Figure 3-2-2. Please click "Finish" and refresh the browser, then you will see the video.

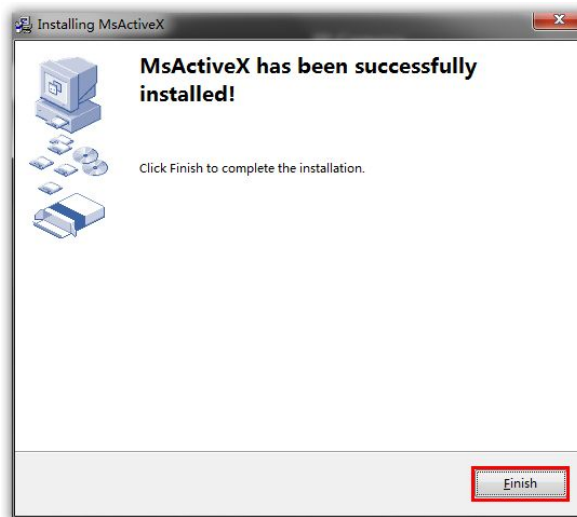


Figure 3-2-2

If IE9 or higher version browser is used, it is suggested that the Milesight camera web link should be added as a trusted site. See the instructions as follows:

Step1: Start the IE9 or higher version browser, and select “Tools”→ “Internet Options”;

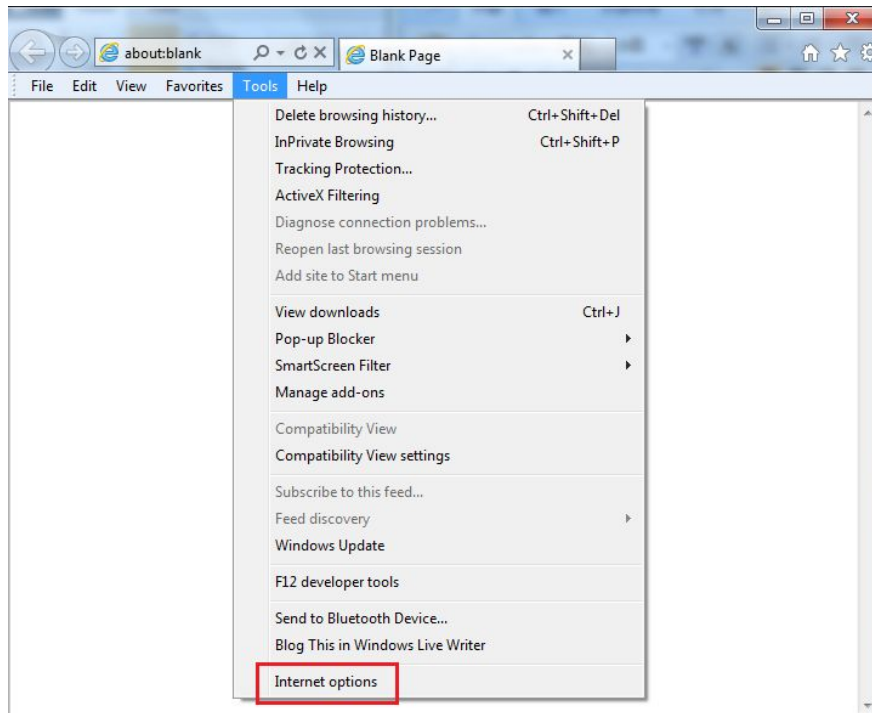


Figure 3-2-3

Step2: Select “Security” to “Trusted”;



Figure 3-2-4

Step3: Enter the IP address of the camera in the blank and click “Add”;

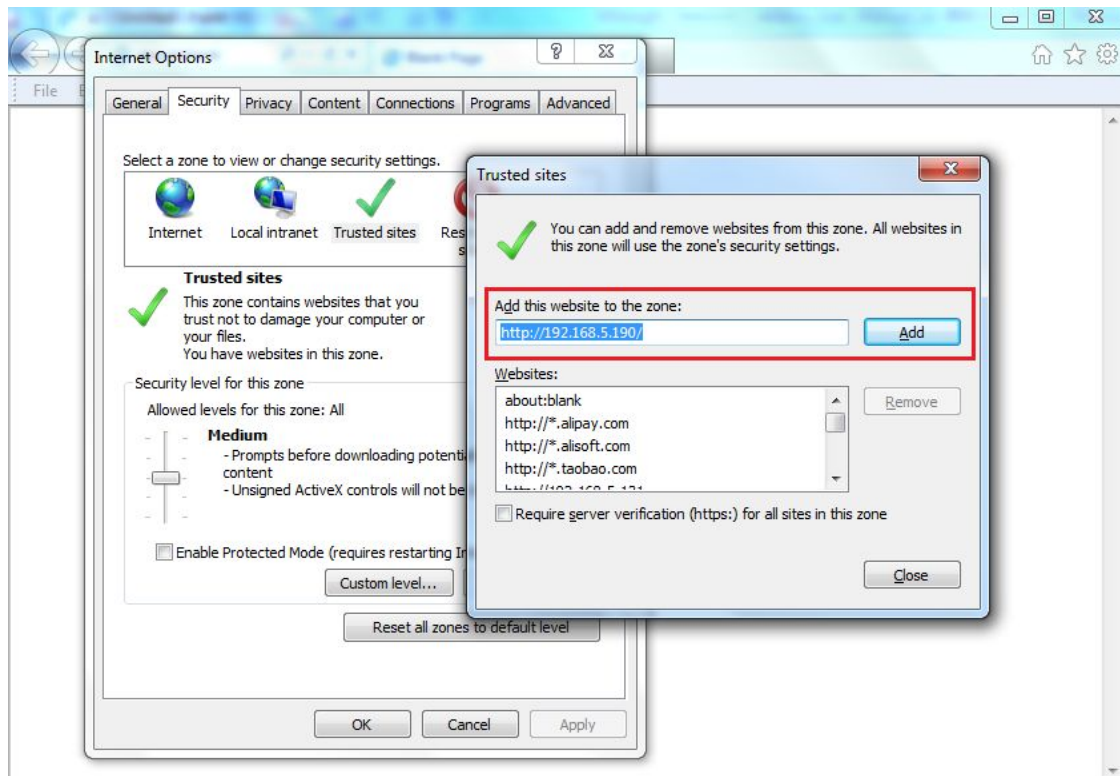


Figure 3-2-5

Step4: Enter the IP address. After logging on IP camera's web GUI successfully, user is allowed to view live video as follows.

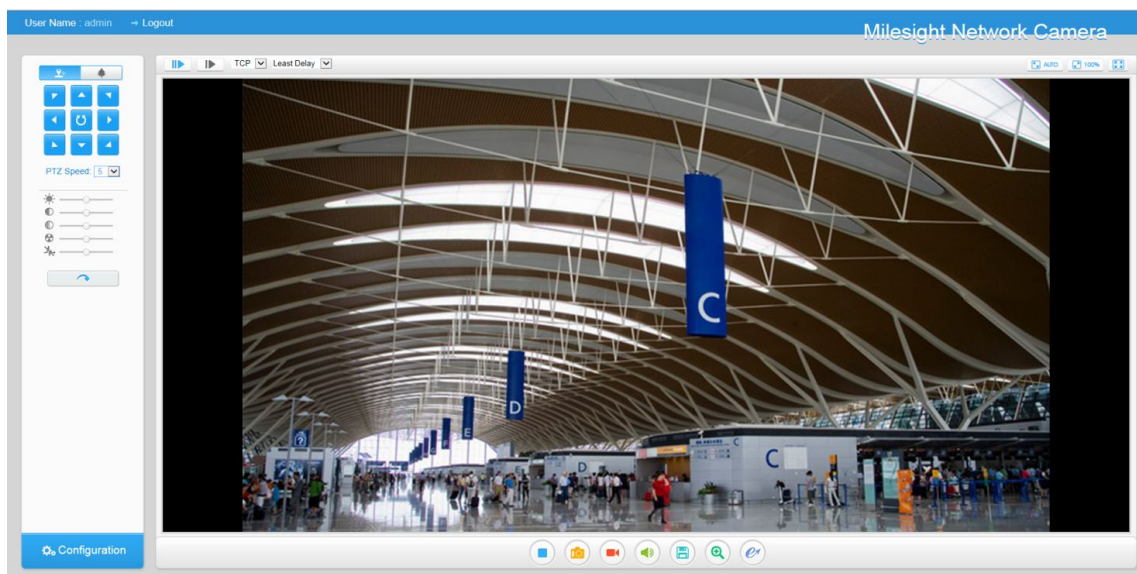


Figure 3-2-6

3.3 Accessing from Milesight VMS (Video Management Software)

Milesight VMS(ONVIF compatible) is a handy and reliable application designed to work with IP cameras in order to provide video surveillance, recording settings and event management functions. The interface of Milesight VMS is very easy to use, intuitive, with easy access to the most common activities, such as viewing live video, searching through recordings and exporting videos and snapshots. It's able to be integrated with other devices through ONVIF. It is designed to

work on Windows XP/7/8/Vista/Server 2000/Server 2008. The software could be downloaded from our website www.milesight.com.

Please install Milesight VMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to user manual of Milesight VMS.

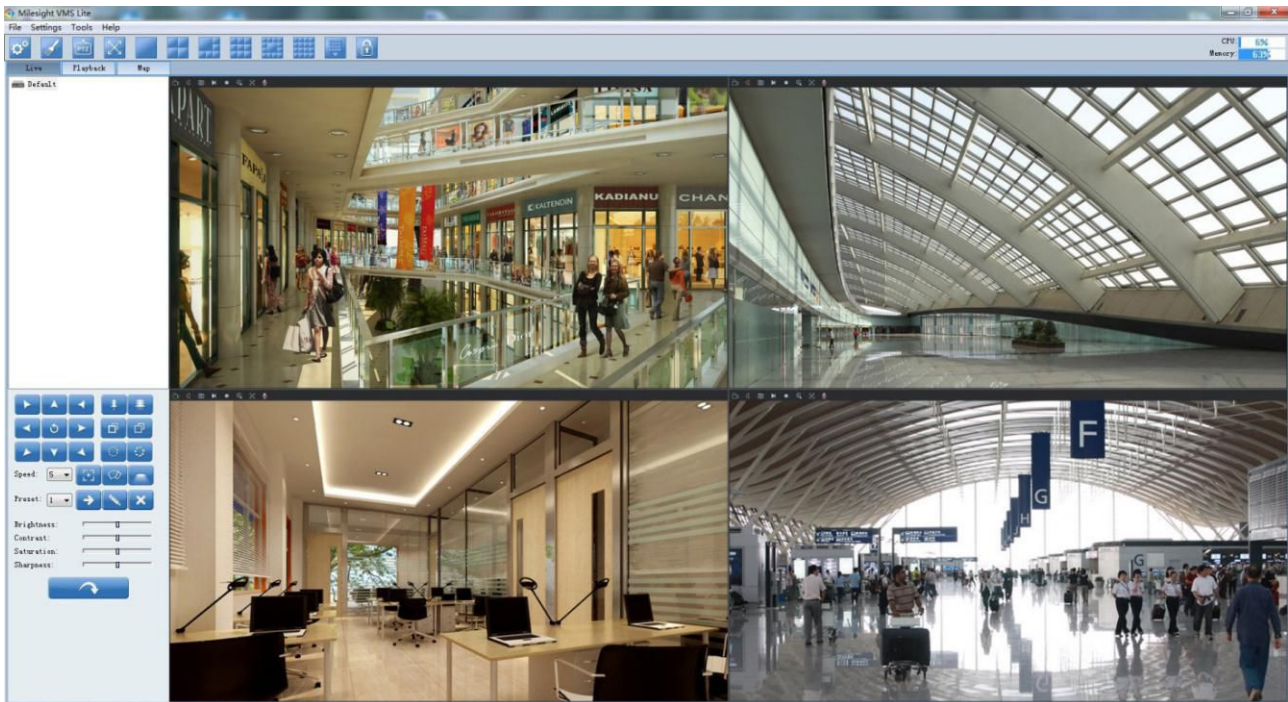


Figure 3-3-1

Chapter IV System Operation Guide

4.1 Live Video

After logging in the network camera web GUI successfully, user is allowed to view live video as follows.

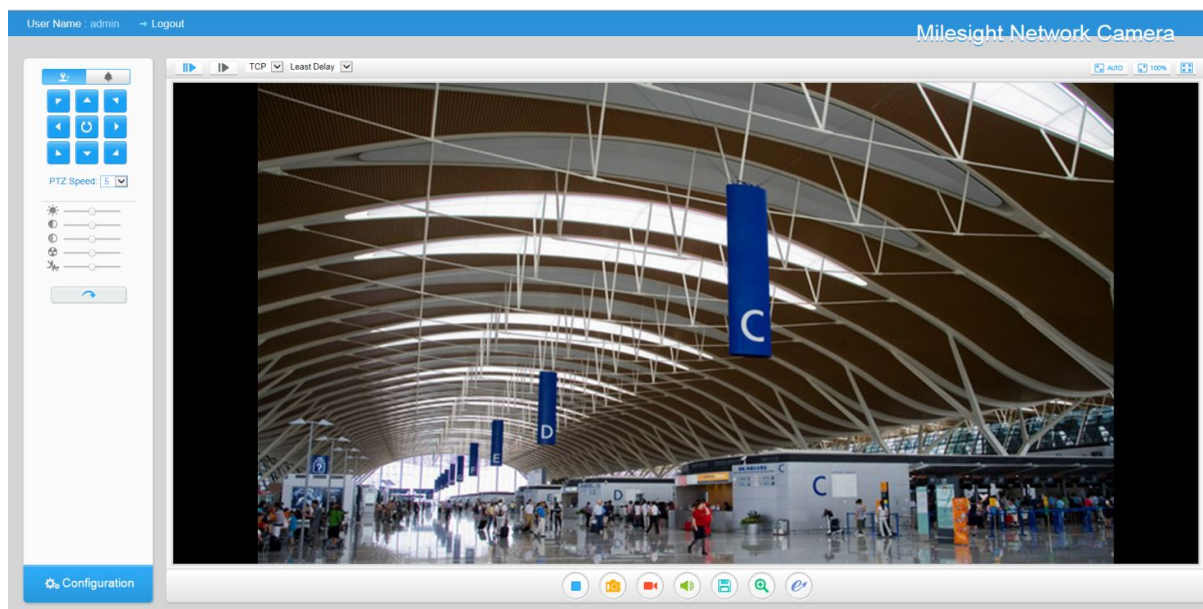
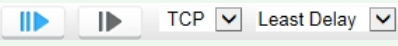
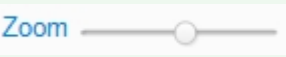
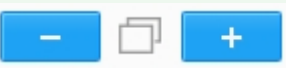


Figure 4-1-1 Live view interface

Table 4-1-1 Description of the buttons

No.	Parameter	Description
	 PTZ Control	Navigation key is used to control the direction. The rotation key is used for auto-rotation
	PTZ Speed	PTZ rotation speed control
②	Image Adjustment	Brightness: A brighter scene appears, if a higher level of brightness is chosen
		Contrast: The difference in color and light between parts of an image
		Saturation: A more vivid scene appears, if a higher level of saturation is chose
		Sharpness: Make image more sharp
		Noise Reduction Level: Adjust the noise reduction level
		Default Settings: Restore brightness, contrast and saturation to default settings

③	 Configuration	Click to access the configuration page
④	 TCP ▼ Least Delay ▼	Choose the Stream to show on the current video window
⑤	 Window size	Click to display images at a window size
⑥	 Real size	Click to display images at a real size
⑦	 Full Screen	Click to display images at full-screen
⑧	 Recording	When recording, the icon will turn red
⑨	 Alarm	When an alarm causes recording, the icon will turn red
	 Zoom	Adjust the Zoom length of the lens
		Adjust focus of the lens
		Adjust the size of IRIS
		Auxiliary Focus and Lens Initialization
	☐ Auto iris	Adjust iris automatically if check this box
⑪		Start/Stop live view
⑫	 Capture	Click to capture the current image and save to the configured path. The default path is C:\VMS\+-1\ IMAGE-MANUAL
⑬	 Start Recording	Click to start recording video and save to the configured path. The default path is C:\VMS\+-1\MS_Record. Click again to stop recording
⑭	 Play Audio	Enable Audio Input/Output. It can also be set in Audio configuration page
⑮	 Saving Path Settings	Set the saving path for captured images and video recordings
⑯	 Enable Zoom	When enabled, you can zoom in in a specific area of video image with your mouse wheel

⑰	 E-PTZ	Able to use PTZ to move the position
---	--	--------------------------------------

4.2 Playback

This section explains how to view the remotely recorded video files stored in SD cards.

Step1: Click [Playback] on the menu bar to enter playback interface.

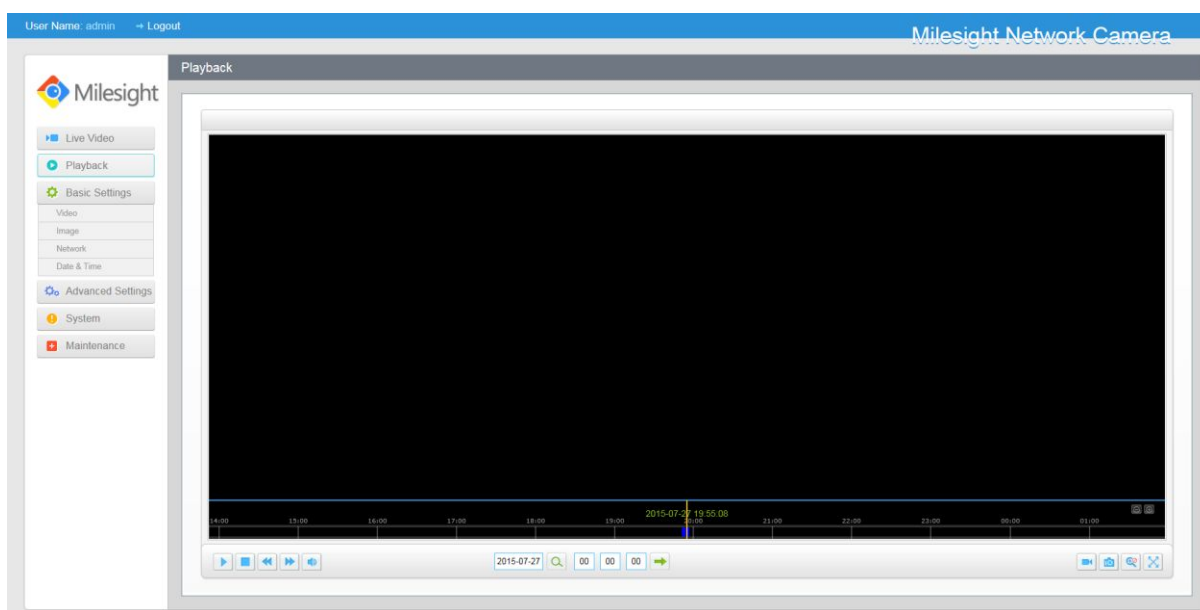


Figure 4-2-1 Playback interface

Step2: Click the date button, choose the date when date window pops up;

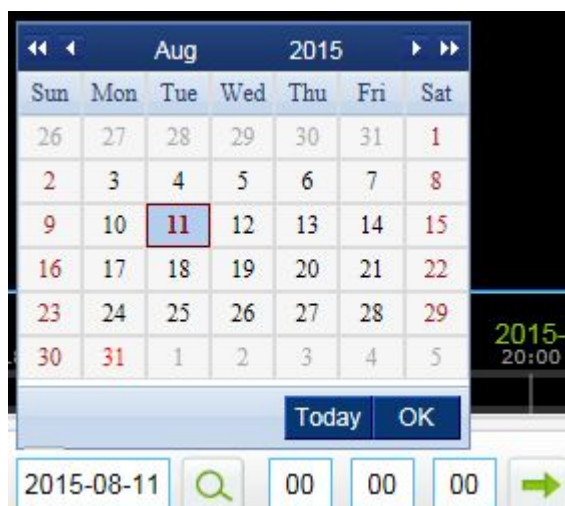


Figure 4-2-2 Search Video

Note:

The date with bright red means there is recorded file in this day; one with dark red means weekend day; one with blue background means the date is selected now.

Step3: Click  to play the video files found on this date.

The toolbar on the bottom of playback interface can be used to control playing progress.

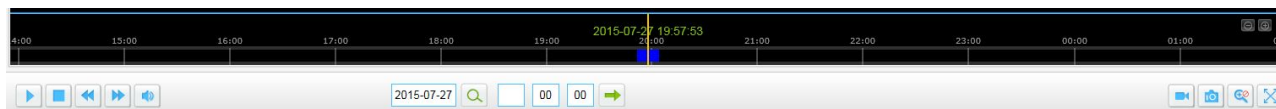
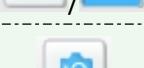


Figure 4-2-3 Playback Toolbar

Table 4-1-2 Description of the buttons

Button	Operation
	Play
	Pause
	Stop
	Slow Forward
	Fast Forward
	Audio On/Off
	Search
	Go To
	Time Narrow/Expand
	Start/Stop Recording
	Snapshot
	Zoom On/Off
	Full Screen

Note:

Drag the progress bar with the mouse to locate the exact playback point. You can also input the time and click  to locate the playback point in the *Set Playback Time* filed. You can also click

 to zoom out/in the progress bar.

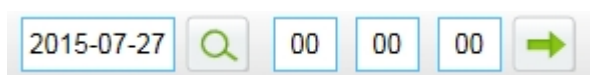


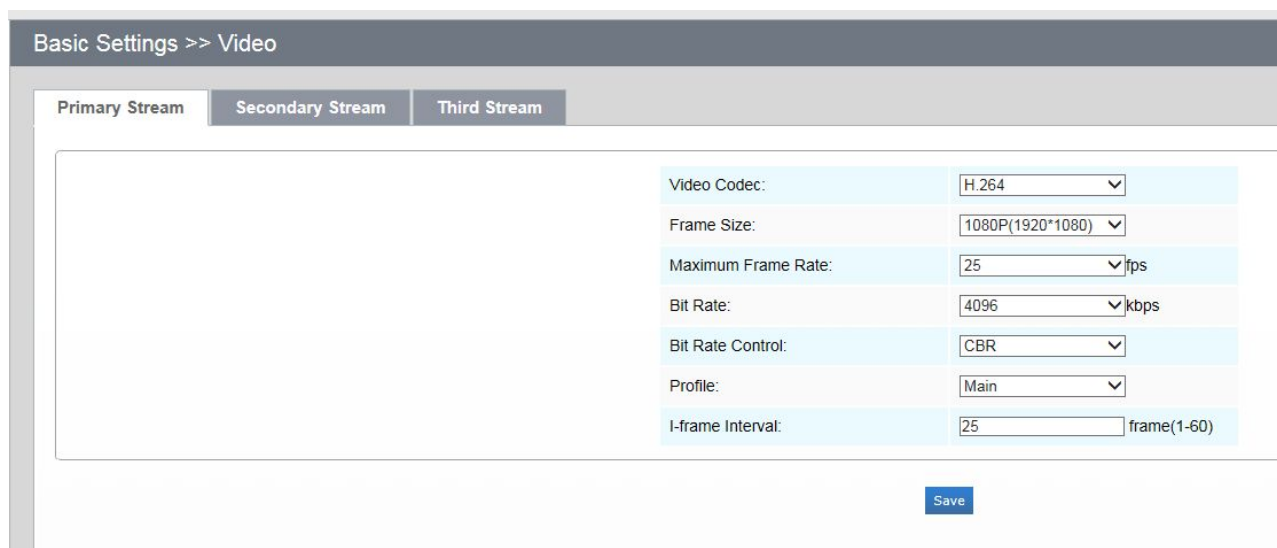
Figure 4-2-4 Set Playback Time

4.3 Basic Settings

4.3.1 Video

Stream parameters can be set in this module, adapting to different network environments and demands.

Primary Stream Settings



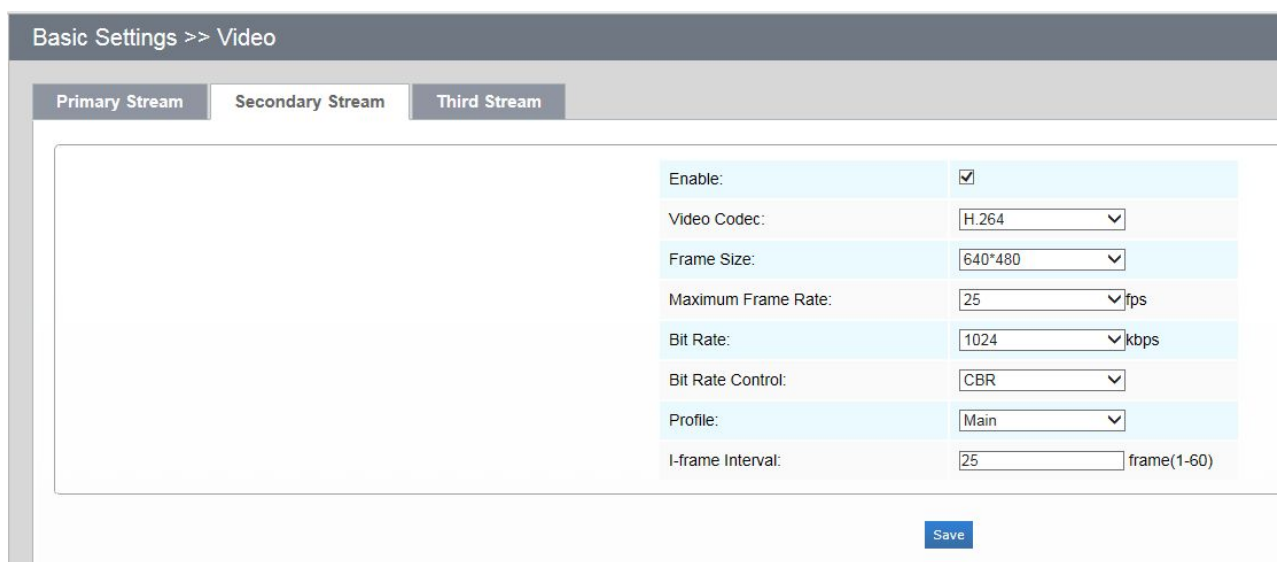
The interface shows the 'Basic Settings >> Video' section with three tabs: 'Primary Stream', 'Secondary Stream', and 'Third Stream'. The 'Primary Stream' tab is selected. The settings are as follows:

Parameter	Value
Video Codec:	H.264
Frame Size:	1080P(1920*1080)
Maximum Frame Rate:	25 fps
Bit Rate:	4096 kbps
Bit Rate Control:	CBR
Profile:	Main
I-frame Interval:	25 frame(1-60)

A 'Save' button is located at the bottom right of the settings area.

Figure 4-3-1 Primary Stream Settings

Secondary Stream Settings



The interface shows the 'Basic Settings >> Video' section with three tabs: 'Primary Stream', 'Secondary Stream', and 'Third Stream'. The 'Secondary Stream' tab is selected. The settings are as follows:

Parameter	Value
Enable:	☒
Video Codec:	H.264
Frame Size:	640*480
Maximum Frame Rate:	25 fps
Bit Rate:	1024 kbps
Bit Rate Control:	CBR
Profile:	Main
I-frame Interval:	25 frame(1-60)

A 'Save' button is located at the bottom right of the settings area.

Figure 4-3-2 Secondary Stream

Third Stream Settings

Basic Settings >> Video

Primary Stream Secondary Stream **Third Stream**

Enable:	☒
Video Codec:	H.264
Frame Size:	640*480
Maximum Frame Rate:	25 fps
Bit Rate:	1024 kbps
Bit Rate Control:	CBR
Profile:	Main
I-frame Interval:	25 frame(1-60)

[Save](#)

Figure 4-3-3 Third Stream

Table 4-3-1 Description of the buttons

Parameters	Function Introduction
Video Codec	There are difference for the camera with “-A” and “-B” -A: H.265/H.264/MJPEG available -B: H.264/MJPEG available
Frame Size	Options include 4M(2592*1520), 3M(2304*1296), 3M(2048* 1536), 1080P(1920*1080), 2M(1600 *1200), 1.3M(1280*960), 720P(1280*720), D1 (704*576)
Maximum Frame Rate	Maximum refresh frame rate of per second
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the H.265/H.264
Bit Rate Control	CBR: Constant Bitrate. The rate of CBR output is constant VBR: Variable Bitrate. VBR files vary the amount of output data per time segment
Profile	The option is for H.264, Main/High can be selected according to your needs
I-frame Interval	Set the I-frame interval to 1~60, 25 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.
JPEG Quality	Low/Medium/High/Higher are available, this item is optional only if you select the MJPEG

Note:

The options of [Frame Size] are variable according to the model selected.

4.3.2 Image

OSD (On Screen Display) content and video time can be displayed to rich the image information. Display information and Day/Night setting can be set in this module.

On Screen Display(OSD)

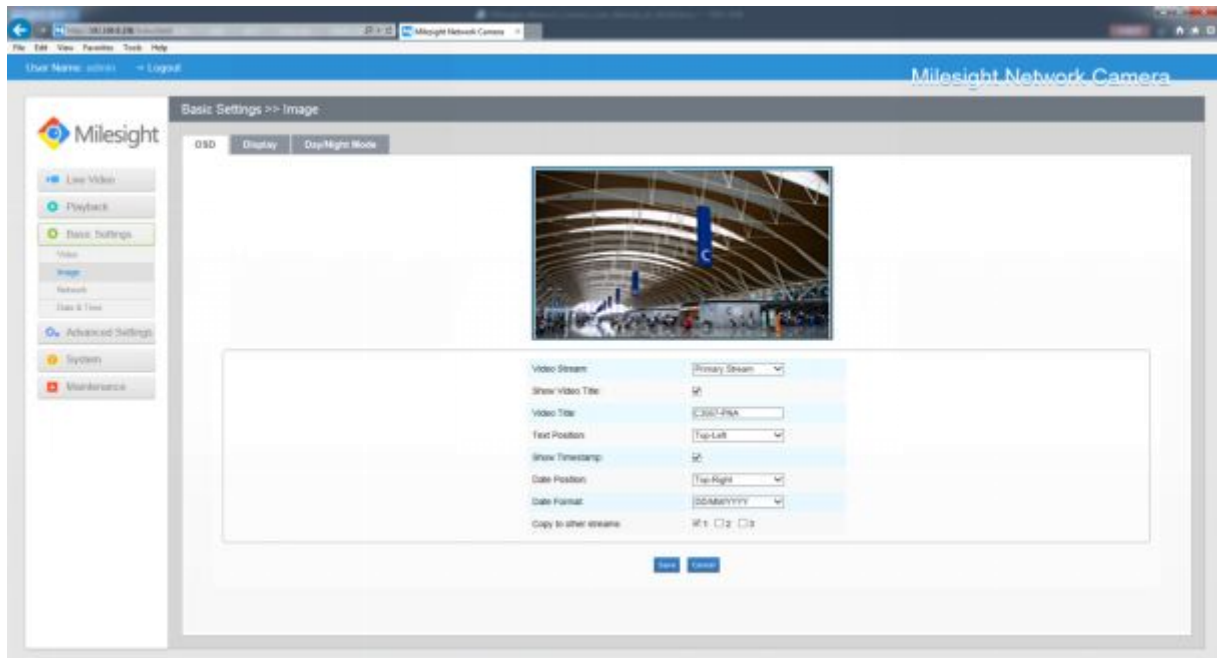


Figure 4-3-4 OSD

Table 4-3-2 Description of the buttons

Parameters	Function Introduction
Show Video Title	Check the checkbox to show video title
Video Title	OSD content customized
Text Position	OSD display position on the image
Show Timestamp	Check the checkbox to display date on the image
Date Position	Date display position on the image
Date Format	The format of date
Copy to other streams	Copy the settings to other streams

Display



WDR	Off
Exposure Region:	Full View
Outdoor/Indoor Mode:	Indoor
Smart IR:	Off
Exposure Mode:	Auto Mode
Power Line Frequency:	50HZ
White Balance:	Auto White Balance
IR Light sensor sensitivity:	MEDIUM
Day/Night Mode:	Auto Mode
Video Orientation:	Normal

Save Cancel

Figure 4--3-5 Display

Table 4-3-3 Description of the buttons

Parameters	Function Introduction
WDR Wide Dynamic Range	Wide Dynamic Range: This function enables the capture and display of both bright and dark areas in the same frame, there are details in both areas in this way Off: Disable WDR function On: Enable WDR function Auto Mode: WDR function will be enable or disable automatically based on the

	brightness of the environment Customize: Customize the schedule to enable/disable the WDR function
Exposure Region	Full View, Custom, and BLC are available Full view: Calculate the full range of view and offer appropriate light compensation Custom: This option enables you to add customized windows as inclusive or exclusive regions manually BLC (Back Light Compensation): This option will automatically add an inclusive region in the middle of the window and give the necessary light compensation
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs
Smart IR	There is an option to turn On/Off the IR LED. Select smart IR on, and the IR LED changes according to the actual illumination.
Exposure Mode	Auto mode/Customize mode. If you choose customize mode, the camera adjusts the brightness according to the value you set. The higher the value, the brighter the image.
Power Line Frequency	60HZ flicker for NTSC mode and 50HZ flicker for PAL mode
White Balance	To restore white objects, removed color distortion because of the light of the environment Auto White Balance: This option will automatically enable the White Balance function Incandescent Lamp: Select this option when light is similar with incandescent lamp Warm Light Lamp: Select this option when light is similar with warm light lamp Natural Light: Select this option when there is no else light but natural light Fluorescent Lamp: Select this option when light is similar with Fluorescent Lamp
IR Light sensor sensitivity	There are three modes LOW/MEDIUM/HIGH, select one mode according your need
Day/Night Mode	There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with this mode Night Mode: Shown in live view based on Night Mode settings Day Mode: Shown in live view based on Day Mode settings Auto Mode: Shown in live view based on environment Customize: Shown in live view based on your own settings' time to start/end Night Mode
Video Orientation	There are six options available, you can select one to meet your need Normal: Remain the image in normal direction Flip Horizontal: Flip the image horizontally Flip vertical: Flip the image vertically Rotating 90°: The images is presented rotating 90° Rotating 180°: The images is presented upside down Rotating 270°: The images is presented rotating 270°

Day/Night Mode

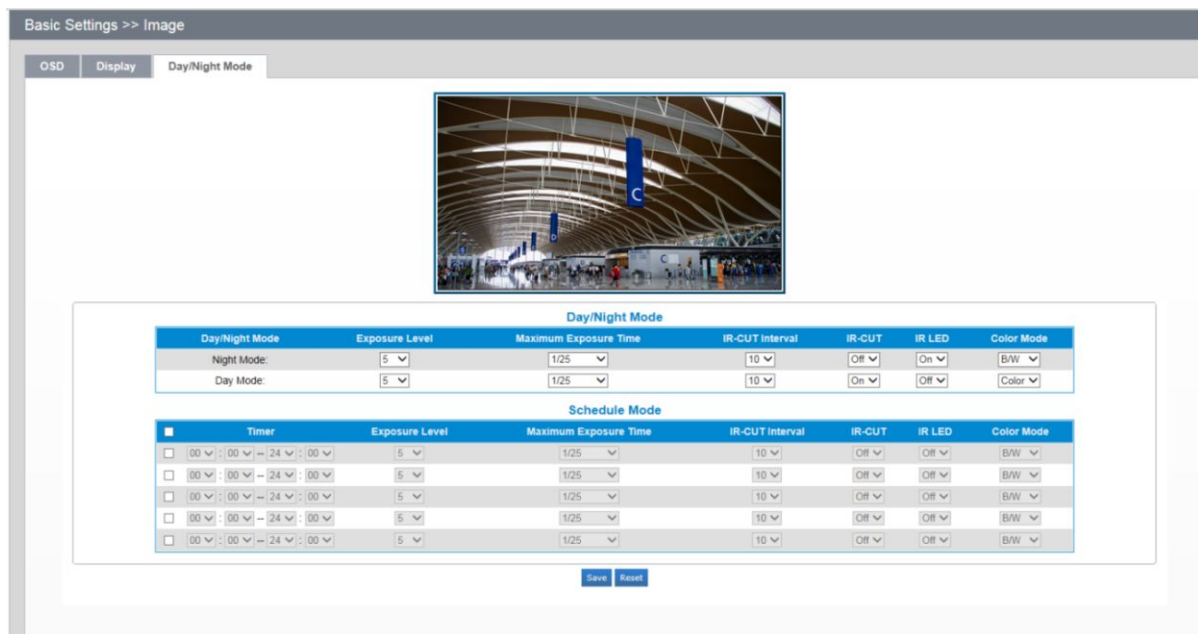


Figure 4-3-6 Day/Night Mode

Table 4-3-4 Description of the buttons

Parameters	Function Introduction
Exposure Level	Level 0~10 are available to meet your need
Maximum Exposure Time	Set the maximum exposure time to 1/5~1/100000
IR-CUT Interval	IR-CUT switching time between each mode
IR-CUT	Choose to turn on or turn off under this mode
IR LED	Choose to turn on or turn off under this mode
Color Mode	Select B/W or Color mode under Day/Night mode
Schedule Mode	Here you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings

4.3.3 Audio

This audio function allows you to hear the sound from the camera or transmit your sound to the camera side. A two-way communication is also possible to be achieved with this feature. Alarm can be triggered when the audio input is above a certain alarm level you set, and configured audio can be played when an alarm occurs.

Enable Audio:	☒
Audio Input:	
Denoise:	☐
Encoding:	G711-ULaw ▼
Sample Rate:	8KHz ▼
Input Gain:	<input type="range"/>
Alarm Level:	<input type="range"/>

Save

Figure 4--3-7 Audio

Table 4-3-5 Description of the buttons

Parameters	Function Introduction
Enable Audio	Check on the checkbox to enable audio feature
Audio Input	Denoise: Set it as On/Off. When you set the function on, the noise detected can be filtered Encoding: G711-ULaw, G711-ALaw and AAC LC are available Sample Rate: There are 8KHz/16KHz two options Input Gain: Input audio gain level, 0-100 Alarm Level: Alarm will be triggered if voice alarm is enabled and input gained volume is higher than the alarm level, 0-100

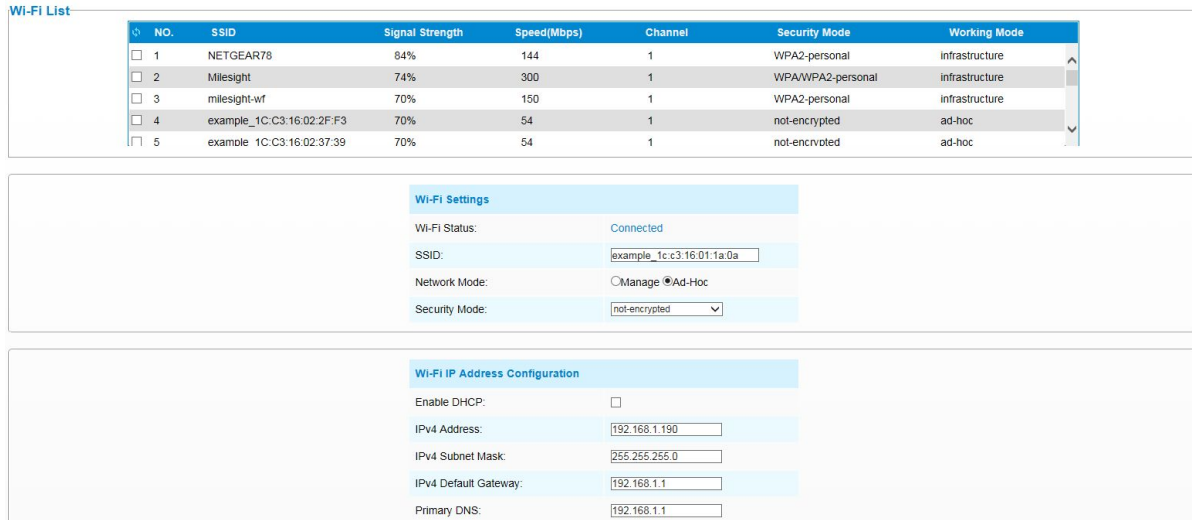
Note:

The Audio mode and Audio Output are only for certain modules.

4.3.4 Wi-Fi

Wi-Fi

The page is as follows:



Wi-Fi List

NO.	SSID	Signal Strength	Speed(Mbps)	Channel	Security Mode	Working Mode
☐ 1	NETGEAR78	84%	144	1	WPA2-personal	infrastructure
☐ 2	Milesight	74%	300	1	WPA/WPA2-personal	infrastructure
☐ 3	milesight-wf	70%	150	1	WPA2-personal	infrastructure
☐ 4	example_1C:C3:16:02:F3	70%	54	1	not-encrypted	ad-hoc
☐ 5	example_1C:C3:16:02:37:39	70%	54	1	not-encrypted	ad-hoc

Wi-Fi Settings

Wi-Fi Status: Connected

SSID:

Network Mode: ☐ Manage ☒ Ad-Hoc

Security Mode: not-encrypted

Wi-Fi IP Address Configuration

Enable DHCP: ☐

IPv4 Address:

IPv4 Subnet Mask:

IPv4 Default Gateway:

Primary DNS:

Figure 4-3-8 Wi-Fi

Table 4-3-6 Description of the buttons

Parameters	Function Introduction
Wi-Fi List	Wi-Fi List: Wi-Fi list
Wi-Fi Settings	Wi-Fi Status: Connected/Disconnected SSID: Wi-Fi source Network Mode: Wi-Fi option for Manage and Ad-Hoc mode Security Mode: Select Wi-Fi connection security mode
Wi-Fi IP Address Configuration	Enable DHCP: Check the checkbox to enable the DHCP function IPv4 Address: Address used to identify a network camera on the network IPv4 Subnet Mask: It is used to identify the subnet where the network camera is located IPv4 Default Gateway: The default gateway address Primary DNS: The DNS Server translates the domain name to IP address

WPS(Wi-Fi Protected Setup)

Originally Wi-Fi Simple Config, it's a network security standard that allows users to easily secure a wireless home network. The goal of the protocol is to allow home users who know little of wireless security and may be intimidated by the available security options to set up Wi-Fi Protected Access, as well as making it easy to add new devices to an existing network without entering long password phrases.

PIN Method

It's a personal identification number (PIN) has to be read from either a sticker or the display on the new wireless device. You can add the PIN code to the router or you add the Router PIN code on this camera.

Push-Button Method

The user simply has to push a button, either an actual or virtual one, on both the access point and the new wireless client device. Support of this mode is mandatory for access points and optional for connecting devices.

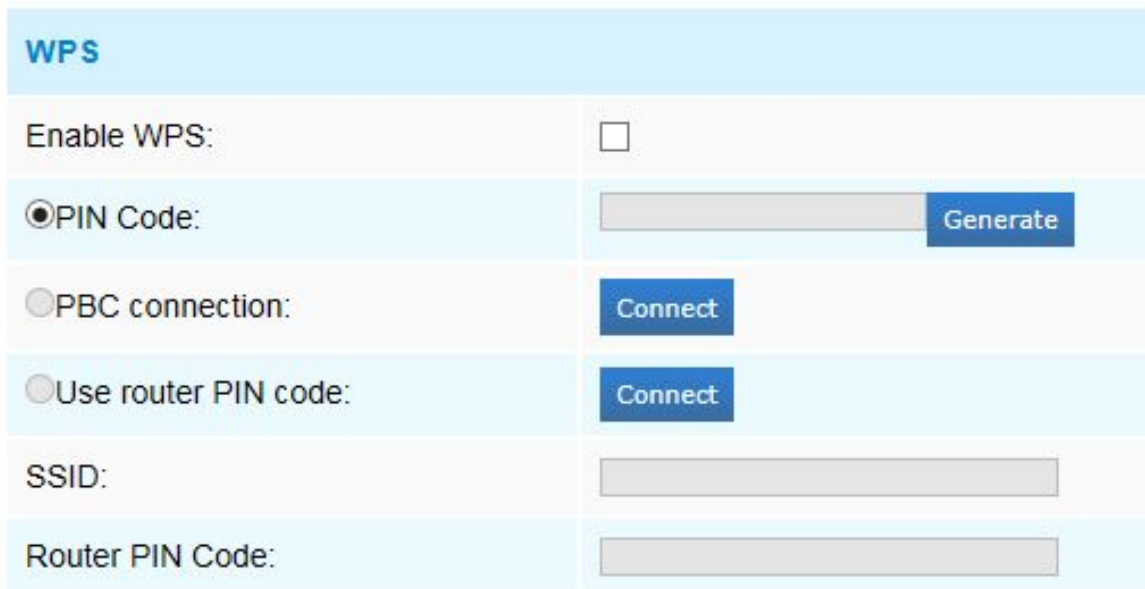


Figure 4-3-9 WPS

Table 4-3-7 Description of the buttons

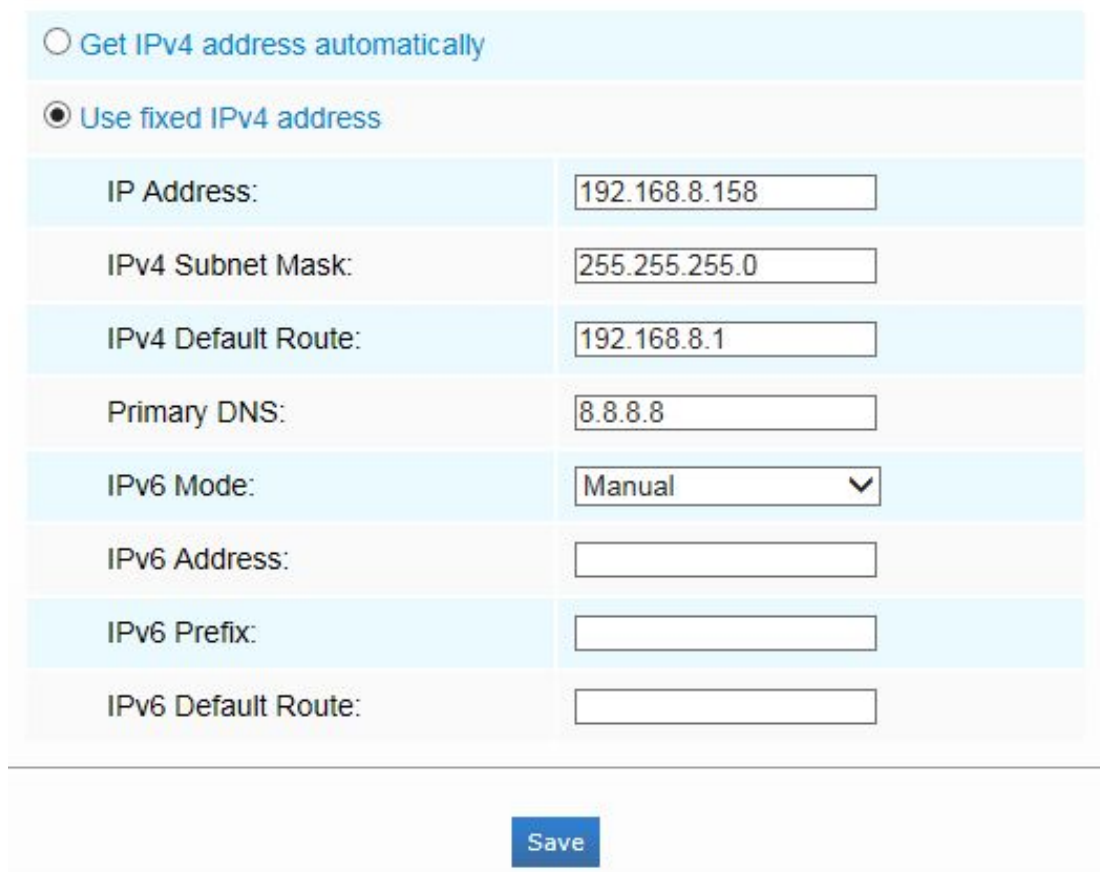
Parameters	Function Introduction
Enable WPS	Enable or Disable WPS
PIN Code	Click on the “Generate” to get a code, you need to add this PIN code to the router
PBC Connecting	Connect via PBC button, click on the PBC button on the router, then click “Connect” button again
Use Router PIN Code	Enter the router PIN code here, and also with the SSID

Note:

- 1) Wi-Fi function is only applicable for Cube cameras if purchased, WPS need supports from Wi-Fi router.
- 2) If you use Fixed IP, please set IP the same segment with Wi-Fi router .

4.3.5 Network

TCP/IP



☐ Get IPv4 address automatically
☒ Use fixed IPv4 address

IP Address:	192.168.8.158
IPv4 Subnet Mask:	255.255.255.0
IPv4 Default Route:	192.168.8.1
Primary DNS:	8.8.8.8
IPv6 Mode:	Manual ▼
IPv6 Address:	
IPv6 Prefix:	
IPv6 Default Route:	

Save

Figure 4-3-10 TCP/IP

Table 4-3-8 Description of the buttons

Parameters	Function Introduction
Get IPv4 Address	Get an IP address from the DHCP server automatically
Use fixed IP address	IPv4 Address: An address that used to identify a network camera on the network IPv4 Subnet Mask: It is used for identifying the subnet where the network camera is located IPv4 Default Router: The default router address Primary DNS: The DNS Server translates the domain name to IP address IPv6 Mode: Choose different mode for IPv6: Manual/Route Advertisement/DHCPv6 IPv6 Address: IPv6 Address used to identify a network camera on the network IPv6 Prefix: Define the prefix length of IPv6 address IPv6 Default Router: The default router IPv6 address

HTTP

HTTP Enable:	☒
HTTP Port:	80
HTTPS Enable:	☒
HTTPS Port:	443

Save

Figure 4-3-11 HTTP

Table 4-3-9 Description of the buttons

Parameters	Function Introduction
HTTP Enable	Start or stop using HTTP
HTTP Port	Web GUI login port, the default is 80, the same with ONVIF port
HTTPS Enable	Start or stop using HTTPS
HTTPS Port	Web GUI login port via HTTPS, the default is 443

RTSP

RTSP Port:	554
Playback Port:	555
RTP Packet:	Better Compatibility
Multicast Group Address:	239.6.6.6
QoS DSCP:	0

Save

Figure 4-3-12 RTSP

Table 4-3-10 Description of the buttons

Parameters	Function Introduction
RTSP Port	The port of RTSP, the default is 554
Playback Port	The port of playback, the default is 555

RTP Packet	There are Better Compatibility and Better Performance two options available, you can choose one to meet your needs
Multicast Group Address	Support multicast function
QoS DSCP	The valid value range of the DSCP is 0-63.

Note:

- 1) DSCP refers to the Differentiated Service Code Point; and the DSCP value is used in the IP header to indicate the priority of the data.
- 2) A reboot is required for the settings to take effect.

4.3.6 Date & Time

Current System Time

Date:

27/7/2015

Time:

23:32:16

Set the System Time

Time Zone:

-8 United States - Pacific Time

Daylight Saving Time:

Disabled

NTP Sync:

☒

Interval:

1 day

☐ Synchronize with computer time

Date:

28/7/2015

Time:

15:31:34

☐ NTP server

☐ Manual

Save

Figure 4-3-13 Date&Time

Current System Time

Current date & time of the system

Set the System Time

Table 4-3-11 Description of the buttons

Parameters	Function Introduction
Time Zone	Choose a time zone for your location
Daylight Saving time	Enable the daylight saving time
NTP Sync	Regularly update your time according to the interval time
Synchronize with computer time	Synchronize the time with your computer
NTP server	Input the address of NTP server
Encryption Type	Synchronize the time with configured SNTP server and selected time zone
Manual	Set the system time manually

4.4 Advanced Settings

4.4.1 Image

There are two more modules(Privacy Mask and ROI) in Advanced Settings than those in Basic Settings. The same parts will not repeat again. Please refer to 4.3.2 if you are in need.

Privacy Mask

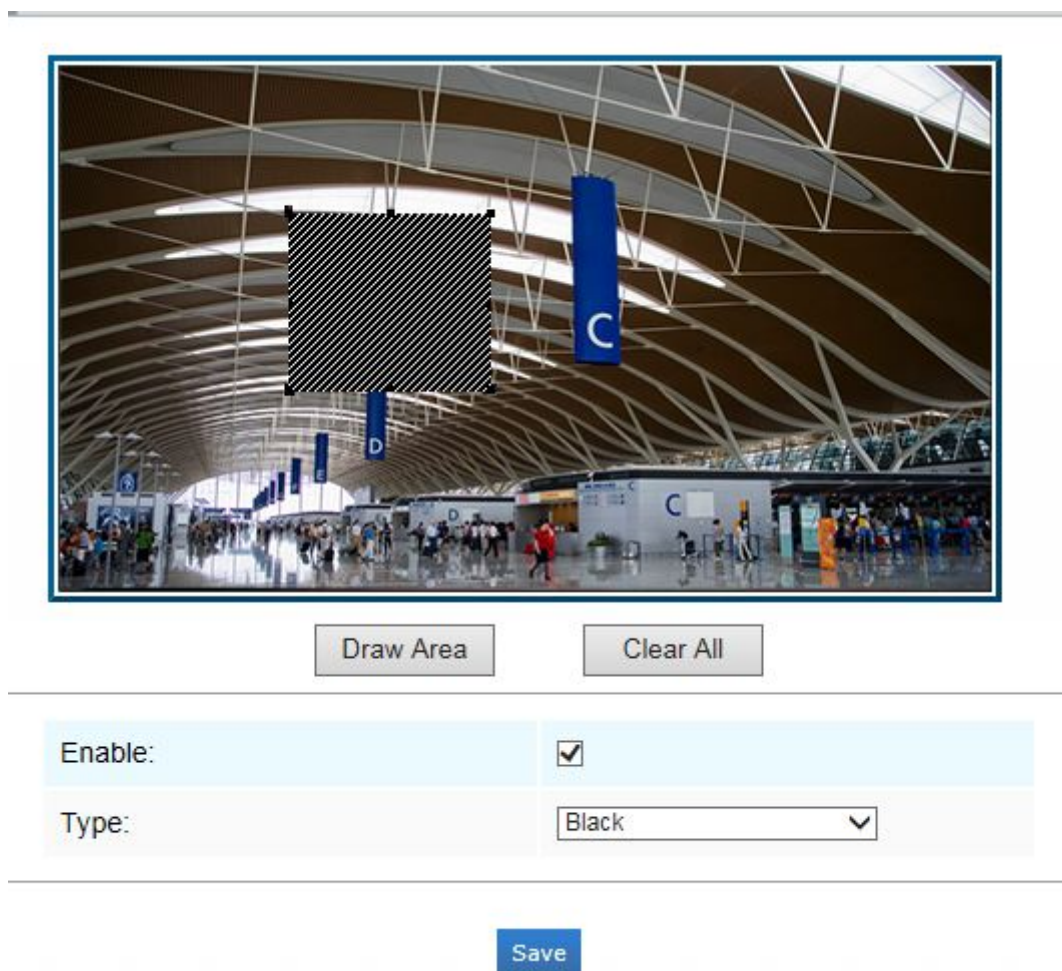


Figure 4-4-1 Privacy Mask

Table 4-4-1 Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the Privacy Mask function
Draw Area	Draw the area which you want to cover
Clear All	Clear all areas you drew before
Type	Select the color to use for the privacy areas, there are three colors available: White, Black, Blue

ROI

A region of interest (often abbreviated ROI), is a selected subset of samples within a dataset identified for a particular purpose. Users can select up to 3 key regions of a scene to transmit as separate streams for targeted preview and recording.

By using Milesight ROI technology, more than 50% of bit rate can be saved and therefore less bandwidth demanded and the storage usage reduced. So according to this, you can set a small bit rate for high resolution.

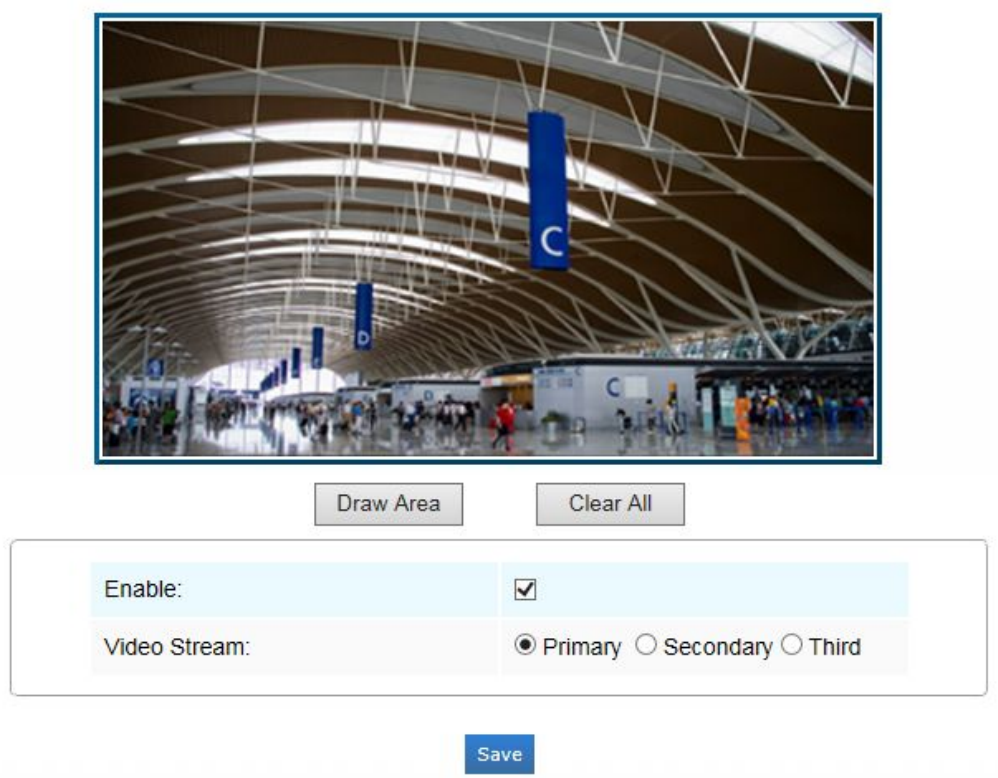


Figure 4-4-2 ROI

Table 4-4-2 Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the ROI function
Draw Area	Draw the areas which you want to use ROI function
Clear All	Clear all areas you drew before
Video Stream	Choose the Video Stream

Note:

You can set a low bit rate firstly.

4.4.2 Network

There are more several modules in Advanced Settings than those in Basic Settings. The same parts will not repeat again. Please refer to 4.3.2 if you are in need.

UPnP

Universal Plug and Play (UPnP) is a networking architecture that provides compatibility among networking equipment, software and other hardware devices. The UPnP protocol allows devices to connect seamlessly and to simplify the implementation of networks in the home and corporate environments. With the function enabled, you don't need to configure the port mapping for each port, and the camera is connected to the Wide Area Network via the router.

Enable UPnP:
☒

Save

Port Mapping

Enable Port Mapping:
☒

Name:

Type:

Protocol Name	External Port	Internal Port	Status
HTTP	21202	80	Invalid
RTSP	23202	554	Invalid

Save

Figure 4-4-3 UPnP

Table 4-4-3 Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the UPnP function
Enable Port Mapping	Check the checkbox to enable the Port Mapping
Name	The name of the device detected online can be edited
Type	Auto: Automatically obtain the corresponding HTTP and RTSP port, without any settings Manual: Need to manually set the appropriate HTTP port and RTSP Port. When choose Manual, you can customize the value of the port number by yourself

DDNS

DDNS allows you to access the camera via domain names instead of IP address. It manages to

change IP address and update your domain information dynamically. You need to register an account from a provider.

DDNS is not running

Enable DDNS:	☒
Provider:	freedns.afraid.org ▼
Hash:	
Host Name:	

Save

Figure 4-4-4 DDNS

Table 4-4-4 Description of the buttons

Parameters	Function Introduction
Enable DDNS	Check the checkbox to enable DDNS service
Provider	Support DDNS from now dyndns.org, freedns.afraid.org, www.no-ip.com, www.zoneedit.com
User name	Account name from the DDNS provider
Password	Account password
Host name	DDNS name enabled in the account

SMTP

Alarm video files can be sent to specific mail account through SMTP server. You must configure the SMTP settings correctly before using it.

User Name:	hdipnc
Sender Email Address:	hdipnc@sina.com
Password:	●●●●●●●●
Server Address:	smtp.sina.com
Server Port:	25
Recipient Email Address1:	user@domain.com
Recipient Email Address2:	
Encryption:	☐ SSL ☐ TLS

Save

Test

Figure 4-4-5 SMTP

Table 4-4-5 Description of the buttons

Parameters	Function Introduction
User Name	The sender's name. It is usually the same as the account name
Sender Email Address	Email address to send video files attached emails
Password	The password of the sender
Server Address	The SMTP server IP address or host name(e.g.smtp.gmail.com)
Server Port	The port of SMTP server. The default TCP/IP port for SMTP is 25(not secured). For SSL/TLS port, it depends on the mail you use
Recipient Email Address1	Email address to receive video files
Recipient Email Address2	Email address to receive video files
Encryption	Check the checkbox to enable SSL or TLS if it is required by the SMTP server.

FTP

Alarm video files can be sent to specific FTP server. You must configure the FTP settings correctly before using it.

Server Address:	192.168.5.1
Server Port:	21
User Name:	admin
Password:	•••••
FTP Folder Name:	default_folder

Figure 4-4-6 SMTP

Table 4-4-6 Description of the buttons

Parameters	Function Introduction
Server Address	FTP server address
Server Port	The port of the FTP server. Generally it is 21
User Name	User name used to log in to the FTP sever
Password	User password

FTP Folder Name	Path where video will be uploaded to on the FTP server
-----------------	--

VLAN

A virtual LAN (VLAN) is any broadcast domain that is partitioned and isolated in a computer network at the data link layer (OSI layer 2). LAN is an abbreviation of local area network. VLANs allow network administrators to group hosts together even if the hosts are not on the same network switch. This can greatly simplify network design and deployment, because VLAN membership can be configured through software. Without VLANs, grouping hosts according to their resource needs necessitates the labour of relocating nodes or rewiring data links.

VLAN Enable:	☒
VLAN ID(1~4094):	1
VLAN IP:	
VLAN Netmask:	
VLAN Gateway:	

Figure 4-4-7 VLAN

Note:

How to set up VLAN in switches, please refers to your switches user manual.

PPPoE

This camera supports the PPPoE auto dial-up function. The camera gets a public IP address by ADSL dial-up after the camera is connected to a modem. You need to configure the PPPoE parameters of the network camera.

Enable PPPoE:	☐
Dynamic IP:	0.0.0.0
User Name:	
Password:	
Confirm Password:	

Figure 4-4-8 PPPoE

Note:

- 1) The obtained IP address is dynamically assigned via PPPoE, so the IP address always changes after rebooting the camera. To solve the inconvenience of the dynamic IP, you need to get a domain name from the DDNS provider (E.g.DynDns.com).
- 2) The user name and password should be assigned by your ISP.

SNMP

You can set the SNMP function to get camera status, parameters and alarm related information and manage the camera remotely when it is connected to the network.

Before setting the SNMP, please download the SNMP software and manage to receive the camera information via SNMP port. By setting the Trap Address, the camera can send the alarm event and exception messages to the surveillance center.

SNMP v1/v2

SNMP V1 Enable:

☐

SNMP V2c Enable:

☐

Write Community:

Read Community:

Trap Address:

Trap Port:

Trap Community Name:

SNMP v3

SNMP V3 Enable:

☐

Read Security Name:

Level of Security:

Write Security Name:

Level of Security:

SNMP Port

SNMP Port:

Save

Figure 4-4-9 SNMP

Table 4-4-7 Description of the buttons

Parameters	Function Introduction
SNMP v1/2/3	The version of SNMP, please select the version of your SNMP software. SNMP v1: Provide no security SNMP v2: Require password for access SNMP v3: Provide encryption and the HTTPS protocol must be enabled
Write Community	Input the name of Write Community

Read Community	Input the name of Read Community
Trap Address	Set the trap address
Trap Port	Set the trap port, the default is 162
Trap Community Name	Input the trap community name
Read Security Name	Input the name of Read Security Community
Level of Security	There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv)
Write Security Name	Input the name of Write Security Community
Level of Security	There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv)
SNMP Port	The port of SNMP, the default is 161

Note:

- 1) The settings of SNMP software should be the same as the settings you configure here;
- 2) A reboot is required for the settings to take effect.

4.4.3 Alarm

Motion Detection

Step1: Set motion region;

Enable Motion Detection:
☐

Set Motion Region



Select All
Clear All

(Please click the screen for setting!)

Sensitivity

Figure 4-4-10 Alarm

Table 4-4-7 Description of the buttons

Parameters	Function Introduction
Enable Motion Detection	Check the checkbox to enable Motion Detection function
Select All	Click the button, the motion in the area will be detected
Clear All	Click the button, the area drawn before will be removed
Sensitivity	Sensitivity level, 1~10

Step2: Set motion detection schedule;



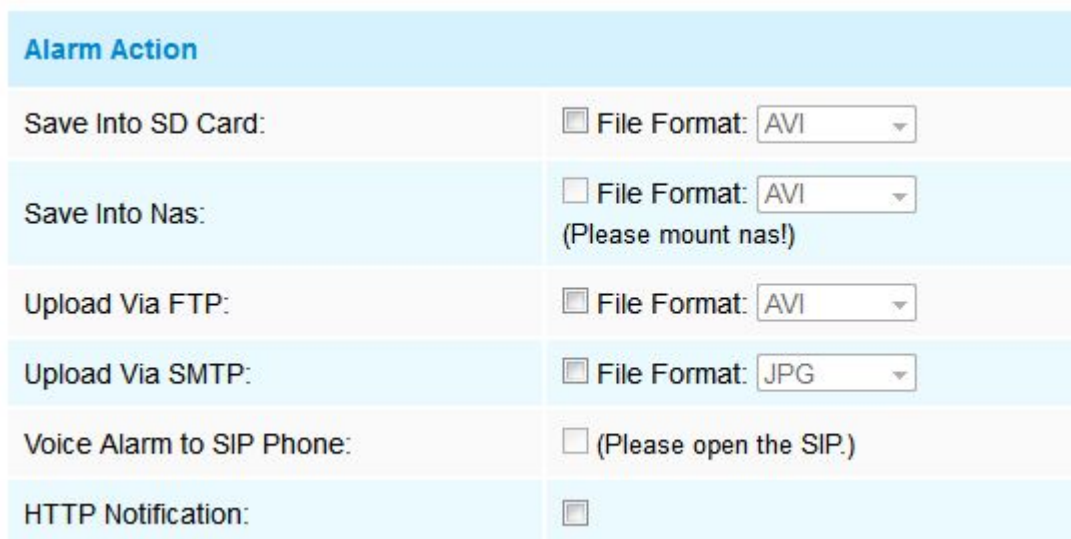
Schedule Settings

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Sun																									
Mon																									
Tue																									
Wed																									
Thu																									
Fri																									
Sat																									

[Edit](#)

Figure 4-4-11 Schedule Settings

Step3: Set alarm action;



Alarm Action

Save Into SD Card:	☒ File Format: AVI
Save Into Nas:	☐ File Format: AVI (Please mount nas!)
Upload Via FTP:	☒ File Format: AVI
Upload Via SMTP:	☒ File Format: JPG
Voice Alarm to SIP Phone:	☐ (Please open the SIP.)
HTTP Notification:	☐

Figure 4-4-12 Alarm Action

Table 4-4-8 Description of the buttons

Parameters	Function Introduction
Save Into SD Card	Save alarm recording files into SD Card
Save Into NAS	Save alarm recording files into NAS
Upload Via FTP	Upload alarm recording files to the configured FTP server
Upload Via SMTP	Upload alarm recording files to SMTP with the configured format
Voice Alarm to SIP Phone	Choose to call the SIP phone when alarm is triggered
HTTP Notification	Choose to send alarm via HTTP notification

Step4: Set alarm settings.

Alarm Setting

Record Video Sections	5 seconds
Pre-record:	0 seconds
Snapshot:	1
Snapshot Interval:	1 second
Trigger Duration:	30 seconds

Figure 4-4-13 Alarm Setting

Table 4-4-9 Description of the buttons

Parameters	Function Introduction
Record Video Sections	Six different periods are available(5, 10, 15, 20, 25, 30 sec)
Pre-record	Reserve the record time before alarm, 0~10 sec
Snapshot	The number of snapshot, 1~5
Trigger Duration	Length of time an alarm lasts

Audio Alarm

Enable the Audio before using Audio Alarm function.

Enable Audio Alarm:
☐ (Please enable the audio first.)

Schedule Settings

Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

Edit

Figure 4-4-14 Schedule Settings of Audio Alarm

Alarm Action

Save Into SD Card:	☐ File Format: AVI
Save Into Nas:	☐ File Format: AVI (Please mount nas!)
Upload Via FTP:	☐ File Format: AVI
Upload Via SMTP:	☐ File Format: JPG
External Output:	☐ (Please configure the trigger duration.)
Play Audio:	☐ (Please enable the audio first.)
Voice Alarm to SIP Phone:	☐ (Please open the SIP.)
HTTP Notification:	☐

Alarm Setting

Record Video Sections	5 seconds
Pre-record:	0 seconds
Snapshot:	1
Snapshot Interval:	1 second
Trigger Duration:	30 seconds

Figure 4-4-15 Audio Alarm Action

The meaning of items please refer to table 4-22 and 4-23, here will not repeat again.

Enable External Input:

☐

Schedule Settings

Sun

Mon

Tue

Wed

Thu

Fri

Sat

00

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

Edit

Alarm Action	
Save Into SD Card:	☐ File Format: AVI ▼
Save Into Nas:	☐ File Format: AVI ▼ (Please mount nas!)
Upload Via FTP:	☐ File Format: AVI ▼
Upload Via SMTP:	☐ File Format: JPG ▼
External Output:	☐ (Please configure the trigger duration.)
Play Audio:	☐ (Please enable the audio first.)
Voice Alarm to SIP Phone:	☐ (Please open the SIP.)
HTTP Notification:	☐

Alarm Setting	
Record Video Sections	5 seconds ▼
Pre-record:	0 seconds ▼
Snapshot:	1 ▼
Snapshot Interval:	1 second ▼
Trigger Duration:	30 seconds ▼

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Other Alarm

Alarm Type	Network Lost
Enable Network Lost Alarm:	☐
Alarm Action	
Save Into SD Card:	☐ File Format: AVI
Save Into Nas:	☐ File Format: AVI (Please mount nas!)
HTTP Notification:	☐
Alarm Setting	
Record Video Sections	5 seconds
Pre-record:	0 seconds
Snapshot:	1
Snapshot Interval:	1 second
Trigger Duration:	30 seconds
Save	

Figure 4-4-18 Alarm Setting

Table 4-4-10 Description of the buttons

Parameters	Function Introduction
Alarm Type	Network Lost, Tampering and IP Address Conflicted are available Check the checkbox to enable the alarm type you selected
Alarm Action	Save Into SD Card: Save alarm recording files into SD Card Save Into NAS: Save alarm recording files into NAS HTTP Notification: Choose to send alarm via HTTP notification
Alarm Setting	Record Video Sections: Six different periods are available(5, 10, 15, 20, 25, 30 sec) Pre-record: Reserve the record time before alarm, 0~10 sec Snapshot: The number of snapshot, 1~5 Trigger Duration: Length of time an alarm lasts

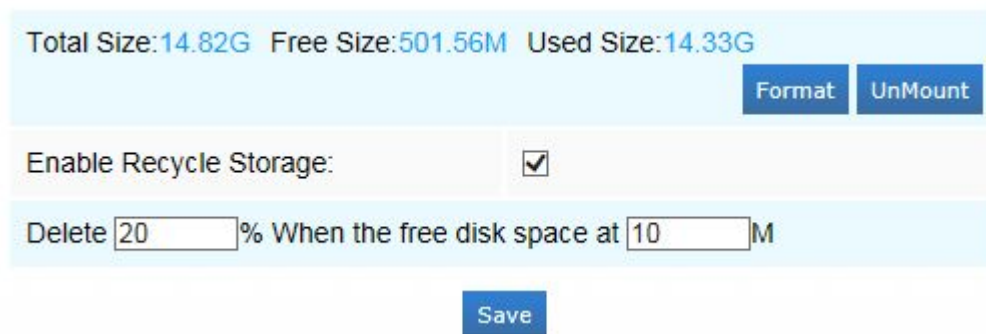
4.4.4 Storage

Before you start:

To configure record settings, please make sure that you have the network storage device within the network or the SD card inserted in your camera.

You can check “Enable cyclic storage”, then it will delete the files when the free disk space reach a certain value. Choose the storage mode according to your needs.

SD Card



Total Size:14.82G Free Size:501.56M Used Size:14.33G

Format UnMount

Enable Recycle Storage: ☒

Delete 20 % When the free disk space at 10 M

Save

Figure 4-4-19 SD Card

Table 4-4-11 Description of the buttons

Parameters	Function Introduction
Format	Format SD card, the files in SD card will be removed
Mount/UnMount	Mount/Dismount SD card
Enable cyclic storage	Enable/Disable cyclic storage
Delete	Enable cyclic storage, when the free disk space reach at a certain time, it will automatically delete the files at certain percentage according to your settings

Record Schedule

Record Storage Type:
SD

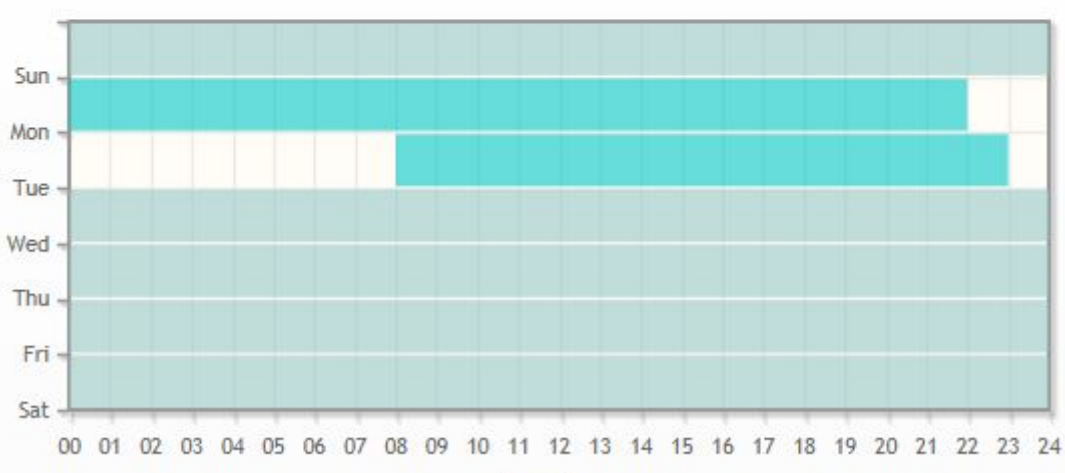
Record Settings

File Sizes:
50
(10-256)M

Record Frame Type:
All

Save

Schedule Settings



Edit

Figure 4-4-20 Record Schedule

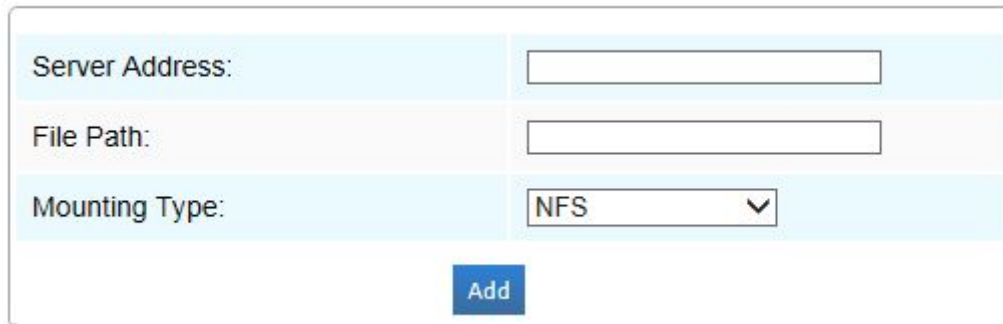
Table 4-4-12 Description of the buttons

Parameters	Function Introduction
Record Storage Type	SD or NAS are available
Record Settings	File Sizes: Set record file size, (10-256)M Record Frame Type: All/Key
Schedule Settings	Click the Edit button to edit record schedule

NAS

The network disk should be available within the network and properly configured to store the recorded files, etc.

NAS(Network-Attached Storage), connecting the storage devices to the existing network, provides data and files services.



The image shows a web-based configuration form for Network Attached Storage (NAS). It consists of three rows of input fields. The first row is labeled 'Server Address:' and has a text input box. The second row is labeled 'File Path:' and has a text input box. The third row is labeled 'Mounting Type:' and has a dropdown menu with 'NFS' selected and a downward arrow. Below these fields is a blue button labeled 'Add'.

Figure 4-4-21 NAS

Table 4-4-13 Description of the buttons

Parameters	Function Introduction
Server Address	IP address of NAS server
File Path	Input the NAS file path
Mounting Type	NFS and SMB/CIFS are available. And you can set the user name and password to guarantee the security if SMB/CIFS is selected

Note:

Up to 5 NAS disks can be connected to the camera.

SD Card Explorer

Files will be seen on this page when they are configured to save into SD card. You can configure time schedules of video recording everyday and save video files to your desired location.

Note:

Files are visible once SD card is inserted. Don't insert or plug out SD card when power on.

SD card video files are arranged by date. Each day files will be displayed under the corresponding date, from here you can copy and delete files etc. You can visit the files in SD card by ftp, for example, <ftp://username:password@192.168.5.190>(user name and password are the same as the camera account and the IP followed is the IP of your device.).

Current Dir: /

Total Size:14.82G Free Size:501.56M Used Size:14.33G

Show 10 entries

Go To Parent

Download

Delete

File Search

	File Name	Time	Type	Size	Action
☐	2015-07-28	-	Folder	-	Delete

Type:

All

Start Time:

2015-07-29 00:00:00

End Time:

2015-07-29 09:28:29

Search

Showing 1 to 1 of 1 entries

Go

First

Previous

1

Next

Last

Figure 4-4-22 SD Card Explore

Snapshot

Snapshot Settings

Enable Timing Snapshot:	☐
Interval:	1 hour ▼
Save Into SD Card:	☐
File Name:	Add Time Suffix ▼
Save Into Nas:	☐
File Name:	Add Time Suffix ▼
Upload Via FTP:	☐
File Name:	Add Time Suffix ▼
Upload Via SMTP:	☐

Save

Schedule Settings

Sun	
Mon	
Tue	
Wed	
Thu	
Fri	
Sat	

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Edit

Figure 4-4-23 Snapshot

Table 4-4-14 Description of the buttons

Parameters	Function Introduction
Snapshot Settings	Enable Time Snapshot: Check the checkbox to enable the Timing Snapshot function Interval: Set the snapshots interval, input the number and choose the unit(millisecond, second, minute, hour, day) Save Into SD Card: Save the snapshots into SD card, and choose the file name to

	add time suffix or overwrite the base file name Save Into NAS: Save the snapshots into NAS, and choose the file name to add time suffix or overwrite the base file name Upload Via FTP: Upload the snapshots via FTP, and choose the file name to add time suffix or overwrite the base file name Upload Via SMTP: Upload the snapshots via SMTP
Schedule Settings	Click the Edit button to edit record schedule

4.4.5 Security

User

Manage Privilege

Allow anonymous viewing: ☐

Save

Account Management

User Name:

User Password:

Confirm User Password:

Privilege: Operator

(You can only add 10 users)

Save

Clear

User Name	Privilege	Edit	Delete
admin	Administrator		
operator	Operator		
viewer	Viewer		

Figure 4-4-24 User

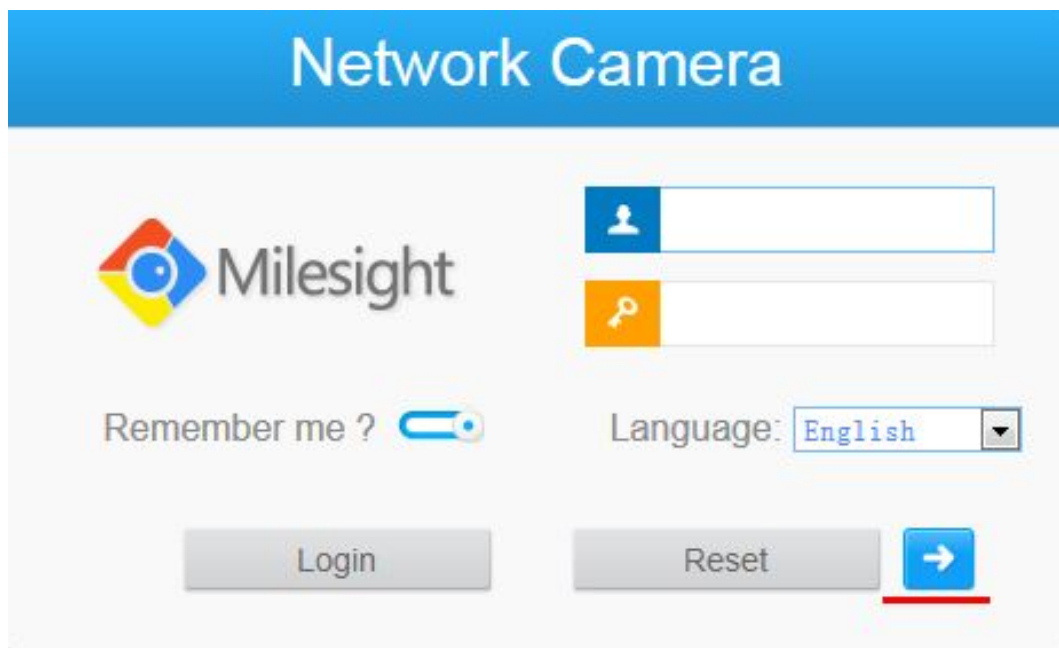
Table 4-4-15 Description of the buttons

Parameters	Function Introduction
Manage Privilege	Allow anonymous viewing: Check the checkbox to enable visit from whom doesn't have account of the device
Account Management	User Name: Input user name for creating an account User Password: Input password for the account Confirm User Password: Confirm the password

	Privilege: Set the privilege for the account
Administrator	An administrator can manage all configuration pages of the device, including change user password, add or delete users (the default user “admin” cannot be deleted)
Operator	An operator can manage all configuration pages except the User page
Viewer	A viewer can't change any settings

Anonymous Visit

Set the Anonymous visit permission Enable or Disable in the drop-down list to enable or disable the anonymous visit. There will be a checkbox of Anonymous next time you logging in.



The image shows the login interface of a Network Camera. At the top, there is a blue header with the text "Network Camera". Below the header, the Milesight logo is displayed on the left. To the right of the logo, there are two input fields: the top one has a blue user icon and the bottom one has an orange key icon. Below these fields, there is a "Remember me ?" checkbox which is currently checked, and a "Language:" dropdown menu set to "English". At the bottom, there are three buttons: "Login", "Reset", and a blue button with a white right-pointing arrow. The arrow button is highlighted with a red underline.

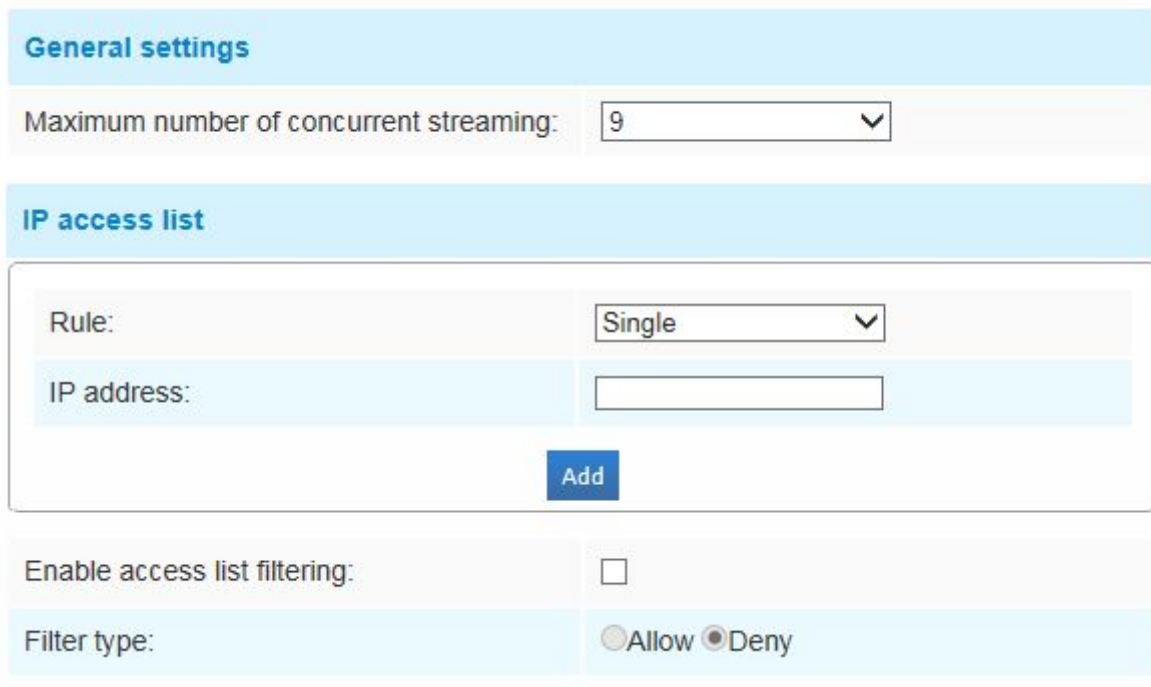
Figure 4-4-25 Log in interface

Click Anonymity and log in.

Note:

Only live view is available for the anonymous user.

Access List



General settings

Maximum number of concurrent streaming: 9

IP access list

Rule: Single

IP address:

Add

Enable access list filtering: ☐

Filter type: ☐ Allow ☒ Deny

Figure 4-4-26 Access List

Table 4-4-16 Description of the buttons

Parameters	Function Introduction
General Settings	Maximum number of concurrent streaming: Select the maximum number of concurrent streaming. Options include No Limit, 1~9
IP access list	Rule: Single, Network and Range are available IP address: Input the address to get the access to the device
Enable access list filtering	Able to access or restrict access for some IP address
Filter type	Access or restrict access

4.4.6 SIP

The Session Initiation Protocol(SIP) is a signaling communications protocol, widely used for controlling multimedia communication sessions such as voice and video calls over Internet Protocol(IP) networks. This page allows user to configure SIP related parameters. Milesight cameras can be configured as SIP endpoint to call out when alarm triggered; or allow permitted number to call in to check the video if the video IP phone is used. To use this function, the settings in SIP page must be configured properly. SIP can be achieved in two ways to get the video, one is to dial the IP address directly, the other is account registration mode, the details are as follows:

Method 1: IP Direct mode

Dial on the camera's IP address directly through SIP phone, so you can see the video(note: SIP phone and the camera should in the same network segment).

Method2: Account registration mode

- 1) Before using the SIP, you need to register an account for the camera from the SIP server;
- 2) Register another user account for the SIP device from the same SIP server;
- 3) Call the camera User ID from the SIP device, you will get the video on the SIP device.

SIP Settings

Unregistered	
Enable:	☐
Register Mode:	Enable ▼
User ID:	500
User Name:	sipclient
Password:	••••••••
Server Address:	192.168.5.101
Server Port:	5060
Video Stream:	Secondary Stream ▼
Max Call Duration:	1800 s A settings of 0 disables the timeout.

Note: SIP supports Direct IP call.

SIP only supports second stream with H.264 video compression which profile is base.

Figure 4-4-27 SIP

Table 4-4-17 Description of the buttons

Parameters	Function Introduction
Unregistered/ Registered	SIP registration status. Display “Unregistered” or “Registered”
Enable	Start or stop using SIP
Register Mode	Choose to use Enable mode or Disable mode. Enable mode means to use SIP with register account. Disable mode refers to use SIP without register account, just use the IP address to call.
User ID	SIP ID
User Name	SIP account name
Password	SIP account password
Server Address	Sever IP address

Server Port	Sever port
Video Stream	Choose the video stream
Max Call Duration	The max call duration when use SIP

Note:

- 1) SIP supports Directly IP call;
- 2) SIP only supports second stream with H.265/H.264 or MPEG4 Video Compression.

Alarm Phone List

Phone Type:	Phone Number ▼
Phone Number:	
Remark Name:	
Duration:	From 00 ▼ : 00 ▼ To 23 ▼ : 59 ▼

Add

Figure 4-4-28 Alarm Phone List

Table 4-4-18 Description of the buttons

Parameters	Function Introduction
Phone Type	Phone Number(Call by phone number) & Direct IP Call(Check to accept peer to peer IP call).
Phone Number/ IP Address	Call by phone number or IP address.
Remark Name	Display name.
Duration	The time schedule to use SIP.

White List

Phone Type:	Phone Number ▼
Phone Number:	
Add	

Enable White List Number Filter:	☐
Save	

Figure 4-4-29 White List

Table 4-4-19 Description of the buttons

Parameters	Function Introduction
Phone Type	Phone Number(Call by phone number) & Direct IP Call
Phone Number/ IP Address	Including the phone number or IP address on the whitelist
Enable White List Number Filter	When enabled, only the designated phone number or IP address can visit

4.4.7 Logs

The logs contain the information about the time and IP that has accessed the camera through web.

Show 30 entries						
Time	Main Type	Sub Type	Param	User	IP	Detail
2015-07-29 11:13:40	Operation	RTSP Session Stop	-	-	192.168.8.76	stop one session.
2015-07-29 11:13:38	Operation	RTSP Session Start	-	-	192.168.8.76	start one session.
2015-07-29 11:13:37	Operation	Login Remote	-	admin	192.168.8.76	-
2015-07-29 09:55:32	Operation	RTSP Session Stop	-	-	192.168.8.76	stop one session.
2015-07-29 09:55:30	Operation	RTSP Session Start	-	-	192.168.8.76	start one session.
2015-07-29 09:55:29	Operation	Login Remote	-	admin	192.168.8.76	-
2015-07-29 09:55:21	Operation	RTSP Session Stop	-	-	192.168.8.76	stop one session.
2015-07-29 09:55:17	Operation	RTSP Session Start	-	-	192.168.8.76	start one session.
2015-07-29 09:55:16	Operation	RTSP Session Stop	-	-	192.168.8.76	stop one session.
2015-07-29 09:55:10	Operation	RTSP Session Start	-	-	192.168.8.76	start one session.
2015-07-29 09:09:14	Operation	RTSP Session Stop	-	-	192.168.8.76	stop one session.
2015-07-29 08:37:08	Operation	RTSP Session Start	-	-	192.168.8.76	start one session.
2015-07-29 08:37:06	Operation	Login Remote	-	admin	192.168.8.76	-
2015-07-28 23:00:01	Information	Record Stop	Schedule Record	-	-	120150728225905.avi
2015-07-28 22:59:05	Information	Record Start	Schedule Record	-	-	120150728225905.avi
2015-07-28 22:59:05	Information	Record Stop	Schedule Record	-	-	120150728225722.avi
Showing 1 to 30 of 1,273 entries						
Go First Previous 1 2 3 4 5 ... 43 Next Last						

Log Search

Main Type:

Sub Type:

Start Time:

End Time:

Figure 4-4-30 Logs

Table 4-4-20 Description of the buttons

Parameters	Function Introduction
Main Type	There are five main log types: All Type, Event, Operation, Information, Exception
Sub Type	On the premise of main type has been selected, select the sub type to narrow the range of logs
Start Time	The time log starts
End Time	The time log ends
Go	Input the number of logs' page

4.5 System

All information about the hardware and software of the camera can be checked on this page.

System	
Device Name:	Network Camera
Product Model:	MS-C3567-PNA
Hardware Version:	V1.1
Software Version:	30.6.0.35
Kernel Version:	3.2.2.17
MAC Address:	1C:C3:16:12:00:32
System Up Time:	1 days 16 hours 5 minutes

Figure 4-5-1 System

Table 4-5-2 Description of the buttons

Parameters	Function Introduction
Device Name	The device name can be customized. It will be seen in file names of video files
Product Model	The product model of the camera
Hardware Version	The hardware version of the camera
Software Version	The software version of the camera can be upgraded
Kernel Version	The kernel version
MAC Address	Media Access Control address
System Up Time Since	The elapsed time since the last restarted of the device

4.6 Maintenance

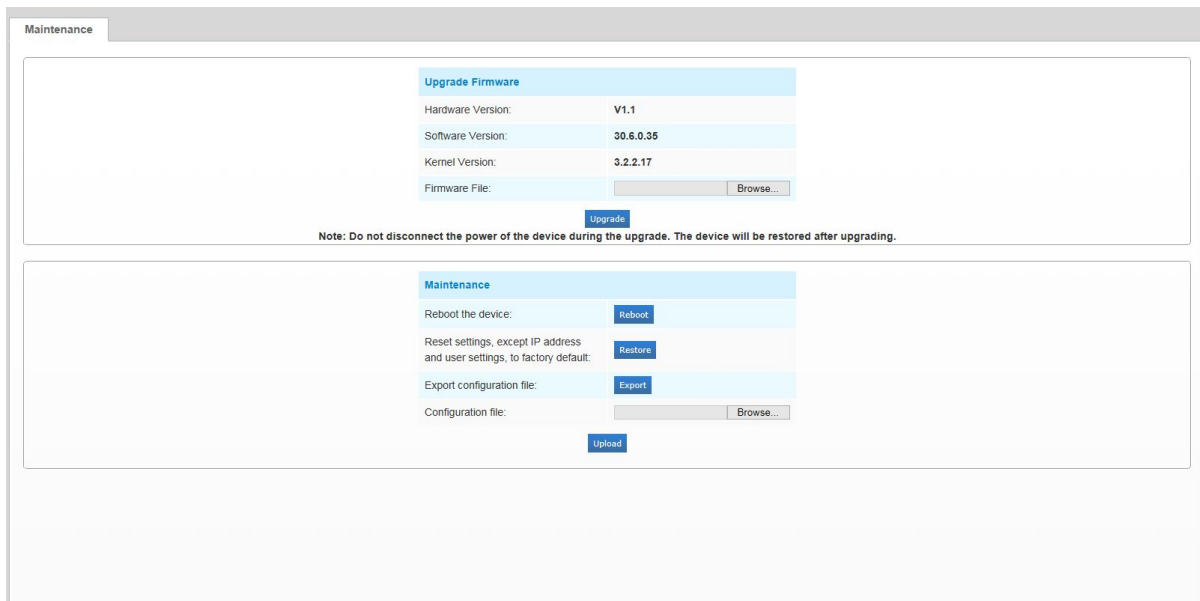
The software can be upgraded by the following steps:

Step1: Browse and select the upgrading file;

Step2: Click the “upgrade” button after it prompts upload file successfully. After the system reboots successfully, the update is done.

Note:

Do not disconnect the power of the device during the update. The device will be restarted to complete the upgrading.



The screenshot shows a web interface with a 'Maintenance' tab. It contains two main sections:

- Upgrade Firmware:** Displays hardware and software versions (V1.1, 30.6.0.35, 3.2.2.17) and a field for the firmware file with a 'Browse...' button. An 'Upgrade' button is at the bottom.
- Maintenance:** Includes buttons for 'Reboot', 'Restore' (to reset settings except IP address to factory default), 'Export' (for configuration file), and 'Upload' (for configuration file).

A note states: "Do not disconnect the power of the device during the upgrade. The device will be restored after upgrading."

Figure 4-5-2 Maintenance

Table 4-5-3 Description of the buttons

Parameters	Function Introduction
Upgrade Firmware	Hardware Version: The hardware version of the camera Software Version: The software version of the camera Kernel Version: The kernel version Firmware File: Select the firmware used to upgrade
Maintenance	Reboot the device: Click "Reboot" button to restart the device immediately Restore settings, except IP address to Factory Default: Click "Restore" button to restore the camera to factory default settings Export configuration file: Click this button to export the configuration file Configuration file: Click this button to import the old configuration file

Chapter V Services

Milesight Technology Co., Ltd provides customers with timely and comprehensive technical support services. End-users can contact your local dealer to obtain technical support. Distributors and resellers can contact directly with Milesight for technical support.

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